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THE

JOHNS HOPKINS

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UNIVERSITY REGISTER

1918-1919

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APRIL, 1919

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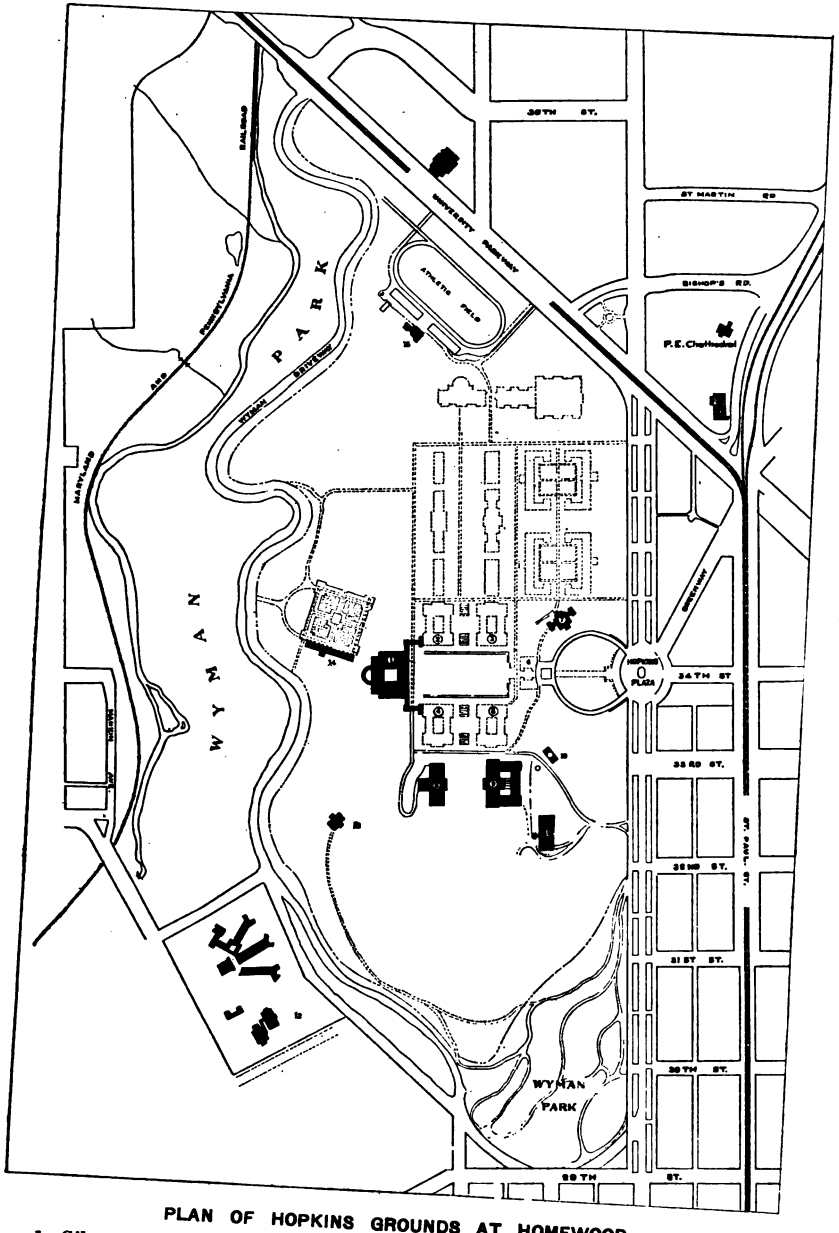
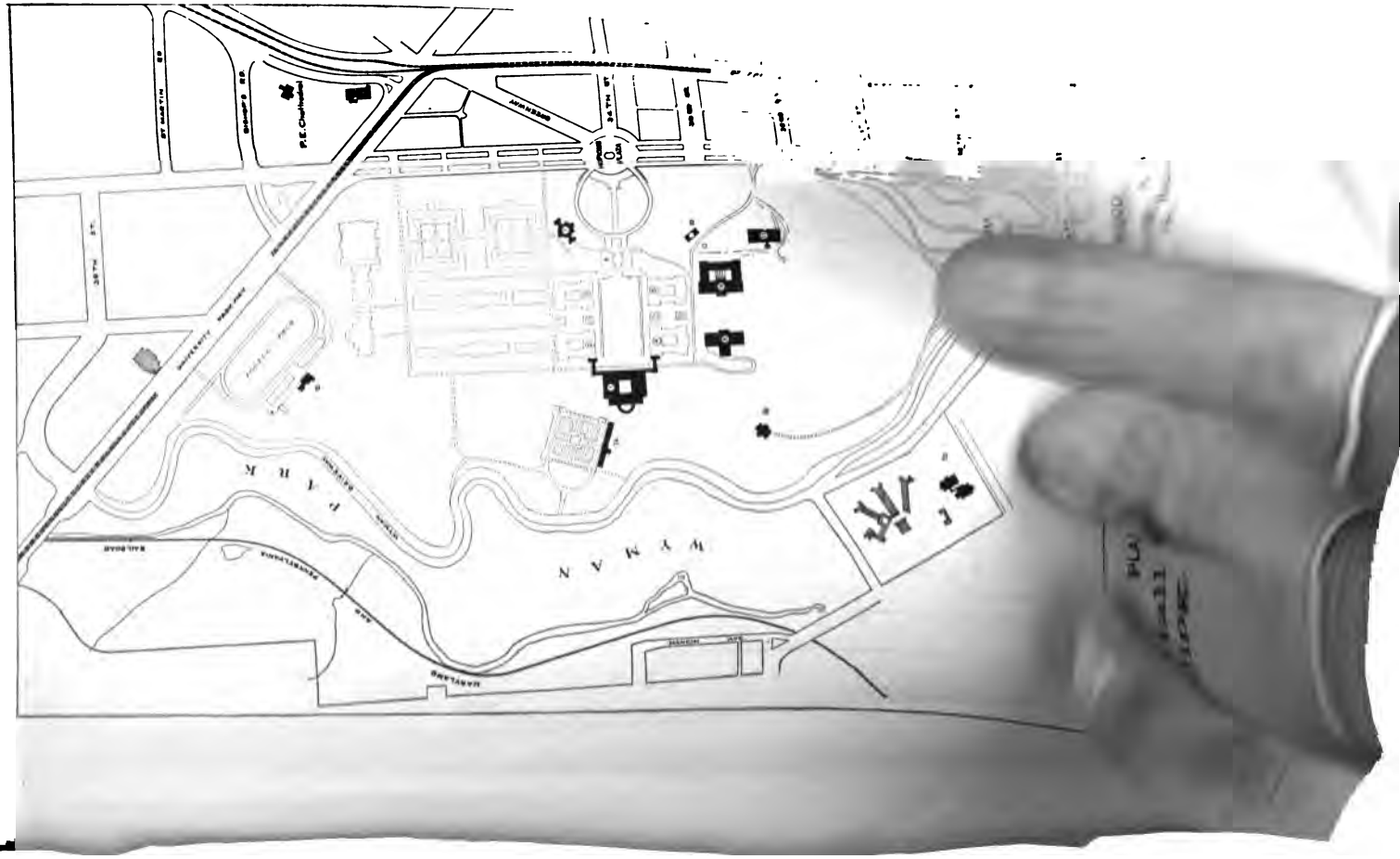


PLAN OF HOPKINS GROUNDS AT HOMEWOOD

1. Gilman Hall. 7. Hopkins Club. 8. Civil Engineering Building. 9. Mechanical and Electrical Building. 10. Students' Building. 11. Power House. 14. Botany and Plant Physiology.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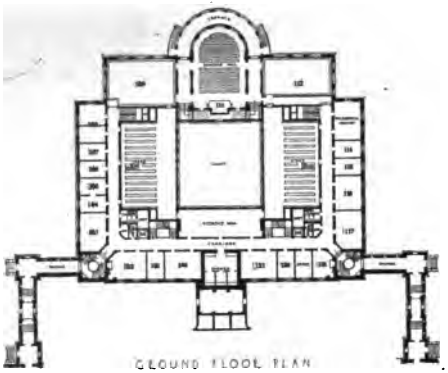
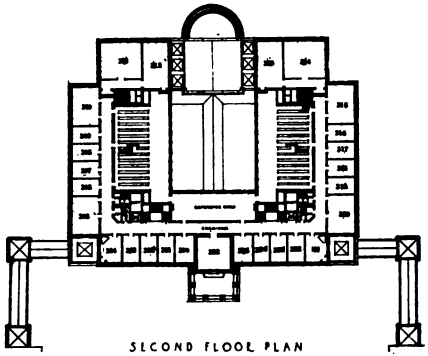

GROUND FLOOR PLAN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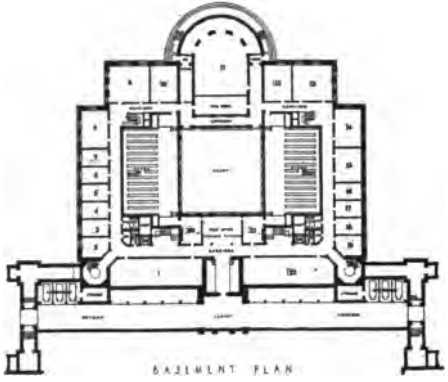
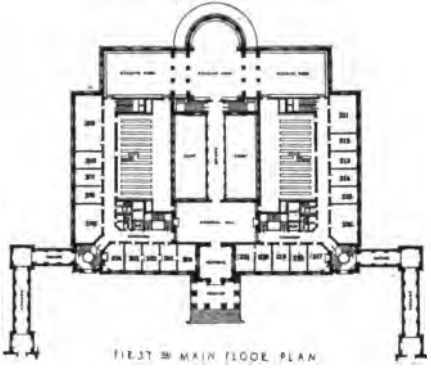
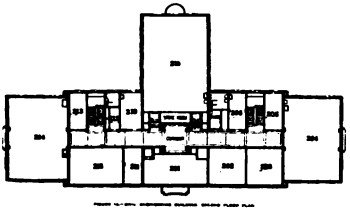
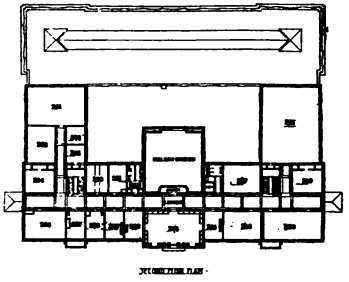
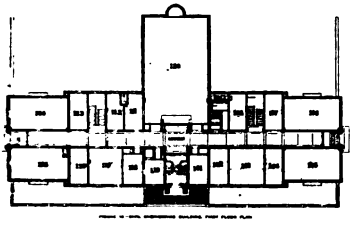

BASEMENT PLAN

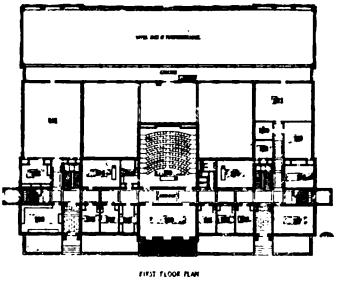

FIRST OR MAIN FLOOR PLAN

GILMAN HALL









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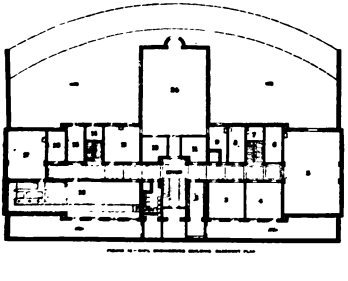
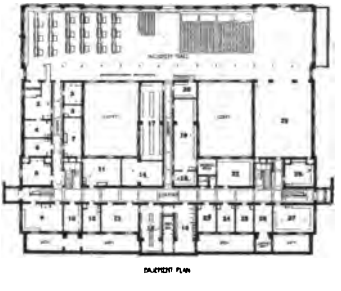
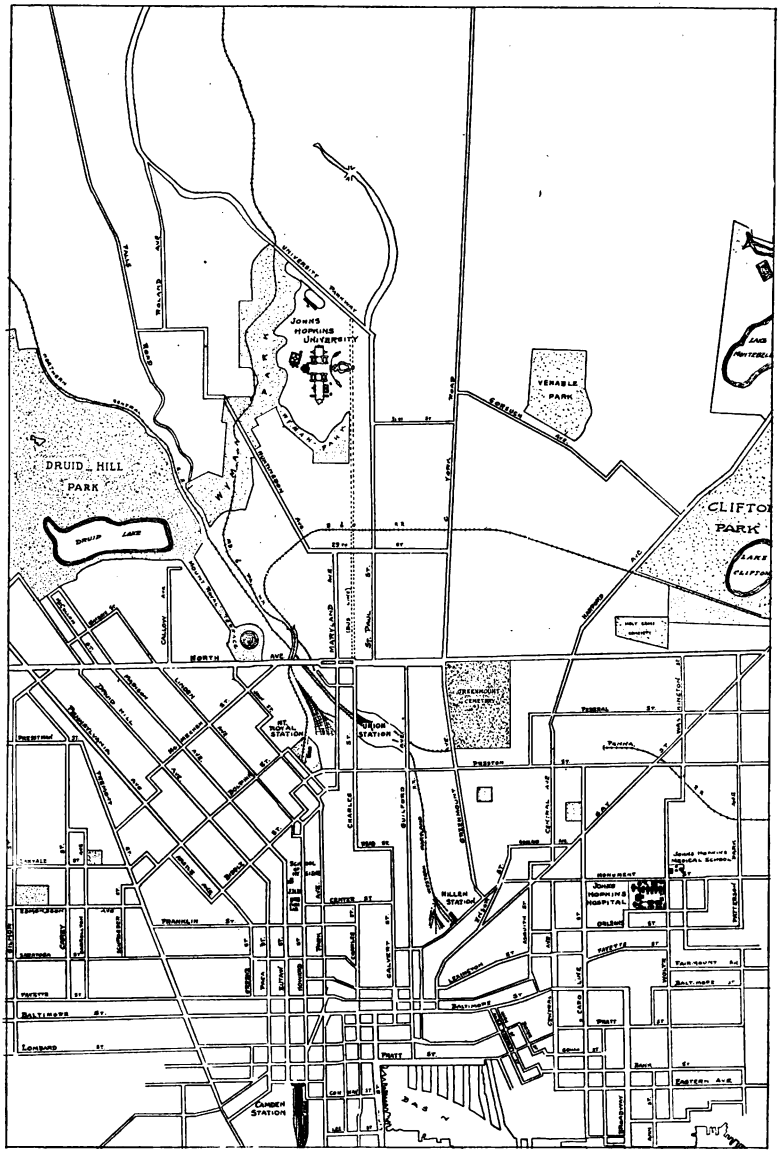


CIVIL ENGINEERING BUILDING



BASEMENT PLAN

MECHANICAL-ELECTRICAL BUILDING



LOCATION OF HOPKINS BUILDINGS AND STREETS WITH CAR LINES

UNIVERSITY REGISTER

1918-1919

BALTIMORE
THE JOHNS HOPKINS PRESS
1919

Charles J. M. Gwinn, Galloway Cheston, George W. Dobbin, Reverdy Johnson, junior, and George William Brown, and which said University shall be located in Baltimore County, in the State of Maryland.

Witness our hands and seals, set hereto on this twenty-fourth day of August, in the year eighteen hundred and sixty-seven.

THOMAS M. SMITH,	(Seal)
WILLIAM HOPKINS,	(Seal)
LEWIS N. HOPKINS,	(Seal)
JOHN W. GARRETT,	(Seal)
ALAN P. SMITH,	(Seal)
JOHN FONERDEN,	(Seal)
GEORGE W. DOBBIN,	(Seal)
GEORGE M. GILL,	(Seal)
ANDREW STERETT RIDGELY,	(Seal)
THOMAS DONALDSON,	(Seal)
JAMES A. L. MCCLURE,	(Seal)
CHARLES J. M. GWINN,	(Seal)

Witness: ALLEN E. FORRESTER.

The following amendments to the charter have been enacted by the State Legislature:

I

AN ACT to grant certain additional powers to "The Johns Hopkins University," a corporation incorporated under the General Laws of Maryland.

Section 1. Be it enacted by the General Assembly of Maryland, That "The Johns Hopkins University," a corporation duly incorporated by certificate recorded in the office of the Clerk of the Circuit Court for Baltimore County, shall have power to establish branches of the said University in the City of Baltimore, to hold, or to purchase and hold, all property in said City needed for the successful conducting of the branches of the said University in said City, and to keep and maintain a principal office in said City for the conduct of the business of the said University.

Section 2. And be it enacted, That the said "The Johns Hopkins University" shall have power to admit students of the said University, who shall merit the distinction, to the office and profession of Surgeon, or to the degree of Doctor of Medicine, or of Doctor of Laws, or of Bachelor or Master of Arts; to grant to students in said University such certificates of proficiency and attainments in any special study as the said University may see proper to confer; and to grant the honorary degrees of Doctor of Laws, Doctor of Medicine, and Master of Arts, or such other degrees as may be proper, to any person who may merit such distinction. whether such person be a student of said University or not.

Section 3. And be it enacted, That this Act shall take effect from its passage.

Approved March 22, 1876.

II

AN ACT to authorize the Trustees of the Johns Hopkins University, a corporation incorporated under the General Laws of Maryland, to make and constitute the President for the time being of the University and each of his successors in said office, during their respective terms thereof, a member ex-officio of the Board of Trustees of the Johns Hopkins University, in addition to the number of twelve Trustees of said University now authorized by law.

Section 1. Be it enacted by the General Assembly of Maryland, That the Trustees of the Johns Hopkins University, a corporation duly incorporated by certificate under the General Laws of Maryland, be and they are hereby authorized and empowered to make and constitute the President for the time being of the Johns Hopkins University and each of his successors in said office, during their respective terms thereof, a member ex-officio of said Board of Trustees in addition to the number of twelve Trustees of said University now authorized by law.

Section 2. And be it enacted that this Act shall take effect from the date of its passage.

Approved April 4, 1892.

As stated in the foregoing certificate, the corporate name of the institution is "The Johns Hopkins University."

The Board of Trustees organized June 13, 1870, and held their first business meeting February 6, 1874. The founder died December 24, 1873, in the seventy-ninth year of his age—having been born May 19, 1795. The election of a President of the University took place December 30, 1874, the choice falling upon Daniel Coit Gilman, at that time President of the University of California. President Gilman was inaugurated February 22, 1876, and instruction began October 3, following. The Johns Hopkins Hospital was dedicated May 7, 1889, and this paved the way for the opening of the medical school of the University four years later (October 1, 1893).

President Gilman resigned his office February 22, 1901, after a service of twenty-five years, and he was succeeded by Dr. Ira Remsen, Professor of Chemistry in the University, whose election took place June 3, 1901. On the twenty-first and twenty-second of February, 1902, the University cele-

brated the completion of twenty-five years of work, and President Remsen was inaugurated.

On the 10th of April, 1912, Dr. Remsen offered his resignation of the office of President, and this was, with reluctance, accepted by the Board of Trustees. He consented, however, to discharge the duties of the office until his successor should be chosen; but it seemed to him best, in the middle of the following year, partly because of an ailment requiring a surgical operation, to request relief. The Trustees then appointed an Administrative Committee of the Faculty, to whom, for the time being, was entrusted the performance of the duties of the presidential office. The committee was composed of Professor William H. Welch, Chairman; Professors Joseph S. Ames, William B. Clark, Basil L. Gildersleeve, Edward H. Griffin, William H. Howell, and Westel W. Willoughby,—Dr. Griffin acting as Executive Secretary.

The third President of the University is Frank Johnson Goodnow, LL. D., who was elected by the Trustees February 22, 1914. Dr. Goodnow was a member of the Faculty of Columbia University from 1883 to 1914, and spent the year 1913-14 in China as constitutional adviser to the Chinese Government. He assumed his official duties as President October 1, 1914.

The work of the University began in two houses at the corner of Howard and Little Ross streets, in Hopkins Hall, and in a chemical laboratory on Little Ross street—the last two buildings having been erected by the Trustees. As the need arose, other buildings were constructed—including a considerable addition to the chemical laboratory, a biological laboratory, a physical laboratory, a gymnasium, a home for the Young Men's Christian Association (the gift of Mr. Eugene Levering), and finally McCoy Hall, a large central building containing offices of administration, assembly room, the general library, and numerous smaller rooms for seminaries, department libraries, classes in languages, history, etc. These buildings, excepting the chemical laboratory, were vacated in the summer of 1916. The medical school is housed in four

buildings in another section of the city, adjacent to the Johns Hopkins Hospital, with which it is closely associated in accordance with the expressed wish of the founder.

The Hospital occupies a commanding site facing North Broadway. The buildings include a central structure chiefly devoted to administration, large private wards, a considerable number of separate buildings containing the public wards, a large dispensary building, a surgical building and amphitheatre, a pathological institute, and a nurses' home. The Harriet Lane Home for Invalid Children, the Phipps Psychiatric Clinic, the Phipps Dispensary for the Treatment of Tuberculosis, and the Brady Urological Clinic are important adjuncts of the Hospital and are situated within its grounds.

In 1902 it was announced that a suburban site had been given to the University by Messrs. William Wyman, William Keyser, Francis M. Jencks, Julian LeRoy White, and William H. Buckler, of Baltimore, and Samuel Keyser, of New York. This site comprised originally one hundred and seventy-six acres of land within the city limits, about two miles directly north of the Washington Monument. Fifty-six acres have been deeded to the city for a public park. The hope was expressed by the donors that the sum of one million dollars would be contributed by the friends of the University within a certain time, to be added to the permanent endowment funds of the University. This hope was realized July 1, 1902. The development of the new site was begun and has continued as the necessary funds have been received. A general scheme of arrangement of the future buildings was adopted, as the result of a competition by selected architects. Laboratories for Botany and Plant Physiology and a greenhouse were first erected, and a fine athletic field was provided. A commodious academic building (Gilman Hall) and two engineering buildings were the next structures completed, the two latter with the funds hereinafter described. The removal to the new site was accomplished during the summer of 1916, and instruction in all departments of the University, excepting graduate Chemistry, is now given at "Homewood." Gilman Hall contains

the general library and the non-laboratory departments, as well as the offices of administration. Plans for the physical and chemical laboratories are completed, and bids on the chemical laboratory have been invited and will be accepted when funds for its erection are available. Plans for the geological laboratory are progressing. Temporary quarters are provided for three of the laboratory subjects pending the erection of the respective laboratories. Zoology and Botany are housed in the basement of Gilman Hall; Physics occupies a portion of two floors in the Mechanical and Electrical Engineering Building; and Geology is quartered in the Civil Engineering Building.

The original endowment of the University amounted to somewhat over $3,000,000. This has been supplemented by a large number of gifts, including the Endowment Fund of 1902 ($1,000,000), the John W. McCoy Fund (($500,000), the Women's Medical School Fund ($100,000), the Mary Elizabeth Garrett Fund ($307,000), the Adoniram J. Robinson Fund ($42,000), the Herbert B. Adams Fund ($42,000), the Johnston Scholarship Fund ($90,000), the Caroline Donovan Fund ($100,000), the H. Willis Baxley Fund ($50,000), the Charles L. Marburg Fund ($50,000), the Herter Lectureship Fund ($25,000), the Beall Memorial Fund ($107,000), the George Huntington Williams Memorial Fund ($20,000), and the John Black Fund ($173,000).

The Endowment and Extension Fund of 1910 was started in June, 1909, when the General Education Board offered to contribute to the University the sum of $250,000 towards the endowment, provided the institution should secure, on or before December 31, 1910, a supplemental sum of $750,000 in cash or pledges. Under the terms of this offer one-half of the million dollars thus acquired was to be added to the permanent endowment, the remainder to be used in the construction of buildings. A General Committee was organized in the summer of 1910, and, aided by an Alumni Committee, a Citizens' Committee, and a Ladies' Committee, secured by

the end of the year pledges for $940,000, more than sufficient to meet the condition imposed by the General Education Board; of the total amount subscribed, $1,168,000 has so far been paid.

By Act of the Legislature of Maryland, at its session of 1912, the sum of $600,000 was appropriated for the purpose of constructing and equipping buildings for a school of technology as a department of the University, with an annual appropriation of $50,000 for maintenance. For this department there have been erected buildings for Civil, Mechanical and Electrical Engineering, and a power house from which are supplied heat, light, and power for all the University buildings at Homewood.

In July, 1914, the General Education Board deposited with the University securities valued at approximately $1,273,000, to establish the "William H. Welch Endowment for Clinical Education and Research." The purpose of this endowment is to aid in reorganizing clinical teaching in the departments of medicine, surgery, and pediatrics, so that the entire time of the teaching staff can be devoted to the work, precisely as in the departments teaching the underlying sciences. The placing of these clinical departments upon the full University basis constitutes one of the most important advances in the teaching of clinical medicine, and is expected to have far-reaching effects. In 1917 the Board voted an additional $350,000,—the income from $100,000 to be used for the extension of the full-time work in Pediatrics, the income from $250,000 for enlarging and broadening the usefulness of the laboratory departments.

The income-bearing funds have a "book value" of $7,107,-200; the real estate and buildings, books, scientific apparatus, and general equipment are valued at $3,909,600. The assets of the University have thus a total value of about $11,016,800.

The Legislature has granted an annual appropriation of $70,000 for general purposes for 1919 and for 1920; in return for which the University offers 129 scholarships to Maryland students in the Department of Engineering and assists the teachers of Maryland who may attend the Summer Courses.

BOARD OF TRUSTEES

R. Brent Keyser, *President*	Miles White, Jr.
Eugene Levering	B. Howell Griswold, Jr.
*Bernard N. Baker	John Glenn, Jr.
Theodore Marburg	Frederick W. Wood
Blanchard Randall	Daniel Willard
Henry D. Harlan, *Secretary*	Newton D. Baker

The President of the University, *ex officio*

COMMITTEES

Executive Committee

Blanchard Randall	Francis M. Jencks
Miles White, Jr.	B. Howell Griswold, Jr.

The President of the University, *ex officio*

Finance Committee

Miles White, Jr.	B. Howell Griswold, Jr.
Eugene Levering	John Glenn, Jr.
Blanchard Randall	

Building Committee

Theodore Marburg	Frederick W. Wood
Henry D. Harlan	

The President of the Board is *ex officio* a member of all committees.

TREASURER OF THE UNIVERSITY

W. Graham Boyce

ALUMNI COUNCIL

G. Stewart Brown	J. H. Mason Knox, Jr.
Thomas R. Brown	John H. Latané
Rufus Cole	Harry T. Marshall
David T. Day	J. Hall Pleasants
Eli Frank	George L. Radcliffe, *ex officio*
Fabian Franklin	C. Alphonso Smith
Charles H. Haskins	Morris A. Soper
Guy L. Hunner	J. Whitridge Williams

* Died December 20, 1918.

FACULTY*

FRANK JOHNSON GOODNOW, LL. D.,

President of the University.

A. B., Amherst College, 1879, and A. M., 1887; LL. B., Columbia University, 1882; LL. D., Amherst College, 1897, Columbia University, 1904, Harvard University, 1909, Brown University, 1914, Princeton University, 1917; Professor of Administrative Law, Columbia University, 1887-1914.

6 W. Madison St.

IRA REMSEN, M. D., PH. D., LL. D., *President Emeritus of the University and B. N. Baker Professor Emeritus of Chemistry.*

A. B., College of the City of New York, 1865; M. D., Columbia University (College of Physicians and Surgeons, N. Y.), 1867; Ph. D., University of Göttingen, 1870; LL. D., Columbia University, 1893, Princeton University, 1896, Yale University, 1901, University of Toronto, 1902, Harvard University, 1909, Pennsylvania College, 1910, University of Pittsburgh, 1915; D. C. L., University of the South, 1907; Professor of Chemistry in Williams College, 1872-76, and previously Assistant in Chemistry in the University of Tübingen; Foreign Member, Chemical Society of London; Honorary Member, Chemical Society of France; Secretary of the Academic Council, 1887-1901; Director of the Chemical Laboratory, 1876-1908; President of the National Academy of Sciences, 1907-13; Medalist of the Society of Chemical Industry, 1904, and President, 1909-10; Editor of the American Chemical Journal, 1879-1913; Professor of Chemistry, 1876-1913 (B. N. Baker Professor, 1904-1913); President of the University, 1901-1913.

214 W. Monument St.

BASIL LANNEAU GILDERSLEEVE, PH. D., LL. D., LITT. D., *Honorary Francis White Professor of Greek.*

A. B., Princeton University, 1849, and A. M., 1852; Ph. D., University of Göttingen, 1853; LL. D., College of William and Mary, 1869, Harvard University, 1886, University of Chicago, 1901, Yale University, 1901, University of Pennsylvania, 1911; D. C. L., University of the South, 1884; L. H. D., Princeton University, 1899; Hon. Litt. D. (Cantab.), Hon. Litt. D. (Oxon.), 1905; Professor of Greek in the University of Virginia, 1856-76; Professor of Latin in the University of Virginia, 1861-66; Hon. Member of the Cambridge Philological Society, of the Philological Syllogos of Constantinople, of the Archæological Society of Athens, and of the Society for the Promotion of Hellenic Studies; Corresponding Fellow of the British Academy, 1907; Member of the American Academy of Arts and Letters; Professor of Greek, 1876-1915 (Francis White Professor, 1904-15); *Editor of the American Journal of Philology.*

1002 N. Calvert St.

PAUL HAUPT, PH. D., LL. D., K. B. E., *W. W. Spence Professor of the Semitic Languages and Director of the Oriental Seminary.*

Gymnasium Augustum, Goerlitz, Ph. D., University of Leipzig, 1878; LL. D., University of Glasgow, 1902; Knight of the Royal Prussian Order of the Red Eagle, 1900; Privat-docent in the University of Göttingen, 1880-83, and Professor of Assyriology in the same, 1883-89; Honorary Curator of the Collection of Oriental Antiquities, United States National Museum, Washington, D. C., 1888-98; Honorary Curator of the Division of Historic Archaeology, United States National Museum, 1898-1905; Associate in Historic Archaeology, United States National Museum, 1905-; Associate of the Society of Oriental Research; Member of the Standing Committee of the International Congress of Orientalists; President of the Society of Biblical Literature and Exegesis, 1905-06; President of the American Oriental Society, 1913-14; President of the Johns Hopkins Philological Association, 1915-16; *Co-editor of the Assyriological Library and of the Contributions to Assyriology and Comparative Semitic Philology; Editor of the Sacred Books of the Old Testament; Member of the Academic Council.*

215 Longwood Rd., Roland Park.

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* Arranged in the several groups in the order of their appointment.

†WILLIAM HENRY WELCH, M. D., LL. D., *Director and Head of the Department of Bacteriology and Immunology, School of Hygiene and Public Health.* [*Colonel, M. C.*]

A. B., Yale University, 1870; M. D., Columbia University (College of Physicians and Surgeons, N. Y.), 1875; M. D. (Hon.), University of Pennsylvania, 1894; LL. D., Western Reserve University, 1894, Yale University, 1896, Harvard University, 1900, University of Toronto, 1903, Columbia University, 1904, Jefferson Medical College, 1907, Princeton University, 1910, Washington University, 1915, and University of Chicago, 1916; Professor of Pathological Anatomy and General Pathology in the Bellevue Hospital Medical College, N. Y., 1879-84; Dean of the Medical Faculty, 1889-98; President of the National Academy of Sciences, 1913-1917; President of the Board of Directors of the Rockefeller Institute for Medical Research; President of the American Association for the Advancement of Science, 1906; President of the American Medical Association, 1910-1911; Member of the American Philosophical Society; Pathologist to the Johns Hopkins Hospital, and Baxley Professor of Pathology, 1884-1917.

807 St. Paul St.

EDWARD HERRICK GRIFFIN, D. D., LL. D., *Professor Emeritus of the History of Philosophy.*

A. B., Williams College, 1862, and A. M., 1865; Union Theological Seminary, N. Y., 1867; D. D., Amherst College, 1880; LL. D., Princeton University, 1888, and Williams College, 1905; Professor of Latin in Williams College, 1872-81, Professor of Rhetoric, 1881-86, and Mark Hopkins Professor of Intellectual and Moral Philosophy, 1886-89; Executive Secretary, Administrative Committee of the Faculty, January 1913-June 1914; Secretary of the Academic Council, 1901-1915; Professor of the History of Philosophy and Dean of the College Faculty, 1889-1915.

Springfield, Mass.

SIR WILLIAM OSLER, BART., M. D., LL. D., D. C. L., F. R. S., *Honorary Professor of Medicine.*

M. D., McGill University, 1872; LL. D., McGill, 1895, Aberdeen, 1898, Toronto, 1899, Yale, 1901, Harvard, 1904, Johns Hopkins, 1905; D. C. L., Edinburgh, 1898, Trinity (Toronto), 1902; M. D. (Hon.), Oxford, 1905; D. Sc., Dublin, 1912; Fellow of the Royal Society of London; Fellow of the Royal College of Physicians, London; Professor of the Institutes of Medicine, McGill University, 1874-84; Professor of Clinical Medicine, University of Pennsylvania, 1884-89; Dean of the Medical Faculty, Johns Hopkins University, 1898-99, and Professor of the Principles and Practice of Medicine, 1889-1905; Physician-in-Chief, the Johns Hopkins Hospital, 1889-1905; Regius Professor of Medicine, University of Oxford.

13 Norham Gardens, Oxford, England.

HENRY MILLS HURD, M. D., LL. D., *Professor Emeritus of Psychiatry.*

A. B., University of Michigan, 1863, M. D., 1866, A. M., 1870, and LL. D., 1895; Professor of Psychiatry, Johns Hopkins University, 1889-1906; Superintendent of the Eastern Michigan Hospital, 1878-89; Superintendent of the Johns Hopkins Hospital, 1889-1911; Editor of the Johns Hopkins Hospital Bulletin and of the Johns Hopkins Hospital Reports, 1889-1911; *Editor of the American Journal of Insanity; Secretary, Board of Trustees of the Johns Hopkins Hospital.*

1023 St. Paul St.

HOWARD ATWOOD KELLY, M. D., LL. D., HON. F. R. C. S., *Professor of Gynecology.*

A. B., University of Pennsylvania, 1877, and M. D., 1882; LL. D., University of Aberdeen and Washington and Lee University, 1906, University of Pennsylvania, 1907; Associate Professor of Obstetrics, University of Pennsylvania, 1888-89; Professor of Gynecological Surgery in the Johns Hopkins University, 1889-99; Honorary Member, Royal Medical Society of Edinburgh; Associate Foreign Member, Society of Obstetrics, Gynecology and Pediatrics, and Chirurgical Society, Paris; Corresponding Member, Obstetrical Society, Leipzig; Fellow, British Gynecological Society; Hon. Fellow, Edinburgh Obstetrical Society, Royal College of Surgeons, Edinburgh, Glasgow Obstetrical and Gynecological Society, Royal Academy of Medicine (Ireland); Hon. Member, Italian Society of Obstetrics and Gynecology, Rome; *Gynecologist-in-Chief to the Johns Hopkins Hospital.*

1418 Eutaw Place.

† On leave for government service.

MAURICE BLOOMFIELD, PH. D., LL. D., L. H. D., *Professor of Sanskrit and Comparative Philology.*

A. M., Furman University, 1877; Fellow, Johns Hopkins University, 1878-79, and Ph. D., 1879; LL. D., Princeton University, 1896, Furman University, 1908: L. H. D., University of Chicago, 1916; Foreign Member, Royal Bohemian Society in Prague, 1896; Honorary Member, Finno-Ugrian Society, Helsingfors, 1898; Member of the International Committee for Congresses on the History of Religions, 1912; Member of the National Institute of Social Sciences, 1914; Fellow of the American Academy of Arts and Sciences, 1914; Hardy Prize of the Royal Bavarian Academy of Sciences in Munich, 1908; President of the American Oriental Society, 1910-11; *Member of the Academic Council.*

861 Park Av.

WILLIAM STEWART HALSTED, M. D., SC. D., LL. D., HON. F. R. C. S., *Professor of Surgery.*

A. B., Yale University, 1874; M. D., Columbia University (College of Physicians and Surgeons, N. Y.), 1877; LL. D., Yale University, 1904, and University of Edinburgh, 1905; Sc. D., Columbia University, 1904; Honorary Fellow, Royal College of Surgeons, England, 1900, and Edinburgh, 1905; Member, National Academy of Sciences; *Surgeon-in-Chief to the Johns Hopkins Hospital.*

1201 Eutaw Place.

HARMON NORTHRUP MORSE, PH. D., LL. D., *Professor Emeritus of Inorganic and Analytical Chemistry.*

A. B., Amherst College, 1873, Instructor, 1875-76, LL. D., 1916; Ph. D., University of Göttingen, 1875; Member of the National Academy of Sciences; Foreign Member, Utrecht Society of Arts and Sciences; Fellow, American Academy of Arts and Sciences; Avogadro Medalist of the Turin Academy of Sciences, 1916; Johns Hopkins University (Fellow, 1876, Associate, 1876-83, Associate Professor, 1883-92, Professor, 1892-1916, Director, Chemical Laboratory, 1908-16).

Homewood Apartments

HENRY WOOD, PH. D., LL. D., K. R. E., *Professor of German.*

A. B., Haverford College, 1869; Ph. D., University of Leipzig, 1879; LL. D., Wake Forest College, 1914; President of the American Folk-Lore Society, 1898; Knights of the Royal Prussian Order of the Red Eagle, 1910; *Member of the Academic Council.*

109 W. North Av.

JOHN JACOB ABEL, M. D., SC. D., *Professor of Pharmacology.*

Ph. B., University of Michigan, 1883, A. M. (Hon.), 1903, and Sc. D., 1912; M. D., University of Strassburg, 1888; Lecturer and Professor of Materia Medica and Therapeutics, University of Michigan, 1890-93; Hon. Member, Philadelphia College of Pharmacy; Corresponding Member, K. K. Gesellschaft der Aerzte, Vienna; Member of the National Academy of Sciences; *Editor of the Journal of Pharmacology and Experimental Therapeutics.*

Windsor Mill Rd., Woodlawn.

WILLIAM HENRY HOWELL, PH. D., M. D., SC. D., LL. D., *Professor of Physiology; Assistant Director, School of Hygiene and Public Health.*

A. B., Johns Hopkins University, 1881, Fellow, 1882-84, and Ph. D., 1884; LL. D., Trinity College (Conn.), 1901; Sc. D., Yale University, 1911; M. D. (Hon.), University of Michigan, 1890, LL. D., 1912; LL. D., Washington University, 1915; Assistant in Biology, 1884-85, Associate, 1885-88, and Associate Professor, 1888-89; Lecturer and Professor of Physiology and Histology, University of Michigan, 1889-92; Associate Professor of Physiology, Harvard University, 1892-93; Member of the National Academy of Sciences and of the American Philosophical Society; Dean of the Medical Faculty, 1899-1911; Professor of Physiology, Medical School, 1893-1917.

232 W. Lanvale St.

JAMES WILSON BRIGHT, PH. D., LL. D., LITT. D., ***Caroline Donovan Professor of English Literature.***

A. B., Lafayette College, 1877; Fellow, Johns Hopkins University, 1880-82, and Ph. D., 1882; LL. D., Wake Forest College, 1907; Litt. D., Lafayette College, 1907; Hon. Secretary for America (South and West) of the Early English Text Society; *Member of the Advisory Board of Modern Philology, and of the Editorial Committee of the Modern Language Association of America; Editor in Chief, Modern Language Notes; Member of the Academic Council.*

718 N. Howard St.

HERBERT EVELETH GREENE, PH. D., ***Collegiate Professor of English.***

A. B., Harvard University, 1881, A. M., 1884, and Ph. D., 1888; Professor of English in Wells College, 1891-93.

1019 St. Paul St.

LORRAIN SHERMAN HULBURT, PH. D., ***Collegiate Professor of Mathematics.***

A. B., University of Wisconsin, 1883, and A. M., 1888; Professor of Mathematics, University of South Dakota, 1887-91; Fellow, Clark University, 1891-92; Ph. D., Johns Hopkins University, 1894.

Homewood Apartments.

JOSEPH SWEETMAN AMES, PH. D., LL. D., ***Professor of Physics and Director of the Physical Laboratory.***

A. B., Johns Hopkins University, 1886, Fellow, 1887-88, and Ph. D., 1890; LL. D., Washington College, 1907; Honorary Member of the Royal Institution of Great Britain; Member of the French Physical Society; Member of the National Academy of Sciences; Fellow of the American Academy of Arts and Sciences; Vice-President, American Physical Society; Member, National Advisory Committee for Aeronautics; Member, National Council of Research; *Assistant Editor of the Astrophysical Journal; Associate Editor of the American Journal of Science; Secretary of the Academic Council.*

Charlcote Place, Guilford

JOHN WHITRIDGE WILLIAMS, M. D., SC. D., LL. D., ***Professor of Obstetrics and Dean of the Medical Faculty.***

A. B., Johns Hopkins University, 1886; M. D., University of Maryland, 1888, and Sc. D. (Hon.), 1907; Sc. D., University of Dublin, 1912; LL. D., University of Pittsburgh, 1915; Associate in Obstetrics, Johns Hopkins University, 1893-96, and Associate Professor, 1896-99; Director of the Johns Hopkins Dispensary, 1907-1910; *Obstetrician-in-Chief to the Johns Hopkins Hospital.*

1128 Cathedral St.

FRANK MORLEY, SC. D., ***Professor of Mathematics.***

A. B., University of Cambridge, 1883, A. M., 1886, and Sc. D., 1898; Professor in Haverford College, 1888-1900; *Co-Editor of the Bulletin of the American Mathematical Society; Editor of the American Journal of Mathematics.*

2026 Park Av.

WILLIAM JULIAN ALBERT BLISS, PH. D., ***Collegiate Professor of Physics.***

A. B., Harvard University, 1838; Ph. D., Johns Hopkins University, 1894.

1017 St. Paul St.

HARRY FIELDING REID, PH. D., ***Professor of Dynamic Geology and Geography.***

A. B., Johns Hopkins University, 1880, Fellow, 1882, and Ph. D., 1885; Professor of Mathematics, 1886-89, and of Physics, 1889-94, Case School of Applied Science; Associate Professor of Physical Geology, University of Chicago, 1895-97; Member of the National Academy of Sciences; Member, National Council of Research.

608 Cathedral St.

†ROBERT WILLIAMS WOOD, A. B., LL. D., *Professor of Experimental Physics.* [*Major, U. S. R.*]

A. B., Harvard University, 1891; LL. D., Clark University, 1909, and University of Birmingham, 1913; Honorary Fellow in Chemistry, University of Chicago, 1892-94; Fellow of the London Physical Society; Hon. Fellow of the Royal Microscopical Society, London; Corr. Member, Royal Society of Sciences, Göttingen; Hon. Member, Optical Society of London; Instructor and Assistant Professor of Physics in the University of Wisconsin, 1897-1901; Rumford Medalist, American Academy of Arts and Sciences, 1909; Member of the National Academy of Sciences; Fellow of the American Academy of Arts and Sciences; Honorary Corresponding Member, British Association.

1011 St. Paul St.

*KIRBY FLOWER SMITH, PH. D., LL. D., *Professor of Latin.*

A. B., University of Vermont, 1884, and LL. D., 1910; Ph. D., Johns Hopkins University, 1889; Professor of Latin, American Academy in Rome, 1914-15.

JACOB H. HOLLANDER, PH. D., *Professor of Political Economy.*

A. B., Johns Hopkins University, 1891, Fellow, 1893-94, and Ph. D., 1894; Treasurer of the Island of Porto Rico, 1900-01; Special Commissioner Plenipotentiary to Santo Domingo, 1905-06; Financial Adviser of the Dominican Republic, 1908-10; *Member of the Academic Council.*

1802 Eutaw Place.

EDWARD BENNETT MATHEWS, PH. D., *Professor of Mineralogy and Petrography.*

A. B., Colby University, 1891; Fellow, Johns Hopkins University, 1893-94, and Ph. D., 1894; *Executive Officer and Member of the Maryland State Forestry Commission; Director of the Maryland State Weather Service; State Geologist of Maryland.*

1410 Linden Av.

LEWELLYS FRANKLIN BARKER, M. D., LL. D., *Professor of Clinical Medicine.*

M. B., University of Toronto, 1890, and M. D. (Hon.), 1905; LL. D., Queen's University, 1908, and McGill University, 1911; Assistant Physician, Assistant Resident Pathologist, Resident Pathologist, and Physician-in-Chief, the Johns Hopkins Hospital, 1891-1900, 1905-1914; Fellow in Pathology, the Johns Hopkins University, 1892-94, Associate in Anatomy, 1894-97, Associate Professor of Anatomy, 1897-99, Associate Professor of Pathology, 1899-1900, and Professor of Medicine, 1905-1914; Professor and Head of the Department of Anatomy, University of Chicago, 1900-04, and Professor of Medicine, Rush Medical College, 1904-05; *Visiting Physician, the Johns Hopkins Hospital.*

208 Stratford Rd., Guilford.

†WILLIAM SYDNEY THAYER, M. D., LL. D., HON. F. R. C. P. I., *Professor of Medicine.* [*Brigadier General, M. C.*]

A. B., Harvard University, 1885, and M. D., 1889; LL. D., Washington College, 1907; Honorary Fellow, Royal College of Physicians of Ireland, 1912; Resident Physician, the Johns Hopkins Hospital, 1891-98, and Associate Physician, 1905-14; Associate and Associate Professor of Medicine, Johns Hopkins University, 1895-1905; Associate in Medicine, the Johns Hopkins Hospital, 1899-1905; Head of the Medical Clinic, the Johns Hopkins Dispensary, 1898-1905; Professor of Clinical Medicine, 1905-1918; *Visiting Physician, the Johns Hopkins Hospital.*

406 Cathedral St.

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* Died December 6, 1918.

† On leave for government service.

JOHN MARTIN VINCENT, PH. D., LL. D., ***Professor of European History.***

A. B., Oberlin College, 1883, and A. M., 1888; Ph. D., Johns Hopkins University, 1890; LL D., Illinois College, 1904, and Oberlin College, 1908; Honorary *Docteur en Droit*, University of Geneva, 1909; Corresponding Member of the *Institut National Genèvois* and of the Sociological Society of London; Foreign Member, Japanese Academy of Social Science, Tokyo.

313 Forest Road, Roland Park.

WESTEL WOODBURY WILLOUGHBY, PH. D., *Professor of Political Science.*

A. B., Johns Hopkins University, 1888, Fellow, 1890-91, and Ph. D., 1891; President, American Political Science Association, 1913; *Managing Editor of the American Political Science Review; Member of the Academic Council.*

[Absent on leave, first term.]

DUNCAN STARR JOHNSON, PH. D., ***Professor of Botany and Director of the Botanical Laboratory and the Botanical Garden.***

A. B., Wesleyan University, 1892; Fellow, Johns Hopkins University, 1896-97, Ph. D., 1897, and Bruce Fellow, 1897-98.

23 Merrymount Road, Roland Park.

HERMANN COLLITZ, PH. D., L. H. D., ***Professor of Germanic Philology.***

Gymnasium Johanneum, Lüneberg, 1875; Ph. D., University of Göttingen, 1879; L. H. D., University of Chicago, 1916; Assistant Librarian and Privatdocent, University of Halle, 1883-86; Associate Professor and Professor of Comparative Philology and German, Bryn Mawr College, 1886-1907; *Editor of Hesperia.*

1027 N. Calvert St.

HERBERT SPENCER JENNINGS, PH. D., S. D., LL. D., ***Henry Walters Professor of Zoölogy and Director of the Zoölogical Laboratory.***

S. B., University of Michigan, 1893; A. M., Harvard University, 1895, and Ph. D., 1896; LL. D., Clark University, 1909; S. D., University of Michigan, 1918; Assistant Professor, University of Michigan, 1900-03, and University of Pennsylvania, 1903-06; Honorary Fellow, Royal Microscopical Society of London; Member of the National Academy of Sciences; Fellow of the American Academy of Arts and Sciences; *Associate Editor of Genetics, fo Psychobiology, and of Journal or Experimental Zoölogy; Member of the Academic Council.*

505 Hawthorne Rd., Roland Park.

WILFRED PIRT MUSTARD, PH. D., ***Collegiate Professor of Latin.***

A. B., University of Toronto, 1886, A. M., 1890, and Fellow, University College, 1886-89; Fellow, Johns Hopkins University, 1890-91, and Ph. D., 1891; Professor of Latin in Colorado College, 1891-93; Instructor in Haverford College, 1893-94, and Professor of Latin, 1894-1907.

18 W. Hamilton St.

EDWARD FRANKLIN BUCHNER, PH. D., ***Professor of Education; Director of the Summer Courses and the College Courses for Teachers.***

A. B., Leander Clark College, 1889, and A. M., 1892; Ph. D., Yale University, 1893, Lecturer and Instructor in Philosophy and Pedagogy, 1892-97; Professor of Analytical Psychology, New York University, 1896-1901; Docent, Clark University, 1901-03; Professor of Philosophy and Education, University of Alabama, 1903-08.

2120 Callow Av.

†JOHN BROADUS WATSON, PH. D., *Professor of Experimental and Comparative Psychology and Director of the Psychological Laboratory.* [*Major, U. S. R.*]

A. M., Furman University, 1899; University of Chicago (Fellow, 1901-03, Ph. D., 1902, Assistant, Instructor and Assistant Professor of Experimental and Comparative Psychology, 1904-08); General Secretary, International Congress of Psychology; President, American Psychological Association, 1914; *Editor, The Psychological Review; Joint Editor, Journal of Animal Behavior; Editor, Behavior Monographs.*

Calvert Court Apts.

ETHAN ALLEN ANDREWS, PH. D., *Professor of Zoölogy.*

Ph. B., Yale University, 1881; Fellow, Johns Hopkins University, 1884-86, and Ph. D., 1887.

Govans.

WALTER JONES, PH. D., *Professor of Physiological Chemistry.*

A. B., Johns Hopkins University, 1888, and Ph. D., 1891; Professor of Natural Sciences, Wittenberg College, 1891-92; Professor of Analytical Chemistry, Purdue University, 1892-95.

2621 St. Paul St.

ADOLF MEYER, M. D., LL. D., *Professor of Psychiatry.*

Zürich Gymnasium, 1885; M. D., University of Zürich, 1892; LL. D., University of Glasgow, 1901, and Clark University, 1909; Honorary Fellow and Docent in Neurology, University of Chicago, 1892-95; Pathologist and Director of Clinical Laboratory, Worcester (Mass.) Hospital for the Insane, and Docent in Psychiatry, Clark University, 1895-1902; Director of the Pathological (Psychiatric) Institute, New York State Hospitals, Ward's Island, 1902-1910; Professor of Psycho-Pathology, Cornell University, 1905-1909; *Psychiatrist-in-Chief to the Johns Hopkins Hospital.*

9 Rugby Rd., Guilford.

BURTON EDWARD LIVINGSTON, PH. D., *Professor of Plant Physiology and Director of the Laboratory of Plant Physiology.*

S. B., University of Michigan, 1898; Fellow, University of Chicago, 1899-1902, Ph. D., 1902, Assistant in Plant Physiology, 1902-04, and Associate, 1905; Collaborator, U. S. Bureau of Forestry, 1902; Research Fellow, New York Botanical Garden, 1903; Walker Prizeman, Boston Society of Natural History, 1904; Soil Expert, in charge of the Division of Fertility, U. S. Bureau of Soils, 1904-05; Staff Member, Department of Botanical Research, Carnegie Institution of Washington, 1906-09.

3012 Barclay St.

MCKENDREE LLEWELLYN RANEY, PH. D., *Librarian.*

A. B., Centre College, 1897; Fellow, Johns Hopkins University, 1901-03, and Ph. D., 1904.

4117 Penhurst Av., W. Arlington.

†ARTHUR ONCKEN LOVEJOY, A. M., *Professor of Philosophy.*

A. B., University of California, 1895; A. M., Harvard University, 1897; Assistant Professor and Associate Professor in Leland Stanford Junior University, 1899-1901; Professor of Philosophy in Washington University, 1901-08, and in the University of Missouri, 1908-10; President, American Association of University Professors, 1919; *Member of the Academic Council.*

718 N. Howard St.

JOHN BOSWELL WHITEHEAD, PH. D., *Professor of Electrical Engineering.*

Proficient in Applied Electricity, Johns Hopkins University, 1893, A. B., 1898, and Ph. D., 1902; Fellow, American Institute of Electrical Engineers.

19 W. Cold Spring Lane, Guilford.

† On leave for government service.

CHARLES KEPHART SWARTZ, PH. D., *Collegiate Professor of Geology*

A. B., Johns Hopkins University, 1888, Fellow, 1903-04, and Ph. D., 1904.

Windsor Mill Road and 17th St.

GEORGE ERNEST BARNETT, PH. D., *Professor of Statistics.*

A. B., Randolph-Macon College, 1891; Fellow, Johns Hopkins University, 1899-1900, and Ph. D., 1901.

718 N. Howard St.

†JOHN MILLER TURPIN FINNEY, M. D., *Professor of Clinical Surgery.* [*Brigadier General, M. C.*]

A. B., Princeton University, 1884; M. D., Harvard University, 1888; Surgeon to the Union Protestant Infirmary; Associate and Associate Professor of Surgery, Johns Hopkins University, 1893-1912; Associate in Surgery, the Johns Hopkins Hospital, 1891-1912, and Associate Surgeon, 1912-14; *Visiting Surgeon, the Johns Hopkins Hospital.*

1300 Eutaw Place.

MURRAY PEABODY BRUSH, PH. D., *Collegiate Professor of French and Dean of the College Faculty (until March, 1919).*

A. B., Princeton University, 1894; Ph. D., Johns Hopkins University, 1898; Instructor in Ohio State University, 1898-99; Trustee of the Peabody Institute; *Co-editor, Modern Language Notes; Member of the Academic Council.*

Port Deposit, Md.

DAVID MOORE ROBINSON, PH. D., LL. D., *Professor of Classical Archæology and Epigraphy and Lecturer on Greek Literature.*

A. B., University of Chicago, 1898, Fellow in Greek, 1899-1901, and Ph. D., 1904; LL. D., Jamestown College (N. D.), 1915; Assistant Professor of Greek, Illinois College, 1904-05; American School of Classical Studies, Athens (Fellow, 1902-03, Acting Director and Professor of the Greek Language and Literature, 1909-10); Archæological Institute of America (Recorder, 1913, and Vice-President, 1914-); President, College Art Association, 1919; *Associate Editor, Classical Weekly; Editor, Art and Archaeology.*

106 Ridgewood Road, Roland Park.

§JOHN HOWLAND, M. D., *Professor of Pediatrics.* [*Major, M. C.*]

A. B., Yale University, 1894, and A. M. (Hon.), 1914; M. D., New York University, 1897, and Cornell University, 1899; late Instructor and Associate in Pediatrics, Columbia University; Professor of Pediatrics, Washington University, St. Louis, 1911-1912; *Director of the Harriet Lane Home, and Pediatrician-in-Chief to the Johns Hopkins Hospital.*

Oak Place and Charles St., Guilford.

CARL CLAPP THOMAS, M. E., *Professor of Mechanical Engineering.*

M. E., Cornell University, 1895; Professor of Marine Engineering and Naval Architecture, New York University, 1901-03; Professor of Marine Engineering, Cornell University, 1904-08; Professor of Steam and Gas Engineering, University of Wisconsin, 1908-13; Member, American Society of Mechanical Engineers, American Society of Naval Architects and Marine Engineers, and American Gas Institute.

CHARLES JOSEPH TILDEN, S. B., *Professor of Civil Engineering; in charge of instruction in Sanitary Engineering, School of Hygiene and Public Health.* [*Captain Engineers, U. S. A.*]

S. B., Harvard University, 1896; Instructor in Civil Engineering, Cornell University, 1903-05; Professor of Engineering Mechanics, University of Michigan, 1911-13; Member, American Society of Civil Engineers; *in charge of Sanitary Engineering, School of Hygiene and Public Health.*

143 W. Lanvale St.

† On leave for hospital service in France.
§ On leave for Red Cross work.

WARREN HARMON LEWIS, M. D., *Professor of Physiological Anatomy.*

S. B., University of Michigan, 1904; M. D., Johns Hopkins University, 1900; *Co-Editor of the Anatomical Record.*

500 Hawthorne Rd., Roland Park.

JOSEPH ELLIOTT GILPIN, PH. D., *Collegiate Professor of Chemistry.*

A. B., Johns Hopkins University, 1889, and Ph. D., 1892; *Secretary of the Board of Collegiate Studies.*

Stony Run Lane, near University Parkway.

JOHN HOLLADAY LATANÉ, PH. D., LL. D., *Professor of American History; Dean of the College Faculty (beginning March, 1919.)*

A. B., Johns Hopkins University, 1892, and Ph. D., 1895; LL. D., University of Alabama, 1913; Albert Shaw Lecturer, 1898; Professor of History and Economics, Randolph-Macon Woman's College, 1898-1902; Professor of History, Washington and Lee University, 1902-1913; Member of the Academic Council.

1016 N. Calvert St.

CHARLES WILLIAM EMIL MILLER, PH. D., *Professor of Greek.*

A. B., Johns Hopkins University, 1882, Fellow, 1883-85, and Ph. D., 1886; *Secretary of the Board of University Studies; Assistant Editor, American Journal of Philology.*

3029 St. Paul St.

KNIGHT DUNLAP, PH. D., *Professor of Experimental Psychology.*

Ph. B., University of California, 1899, M. L., 1901, Le Conte Fellow, 1900-01, Assistant and Instructor, 1902-06; Walker Fellow, Harvard University, 1901-02, A. M., 1902, and Ph. D., 1903; *Editor of Psychobiology and of Psychology Classics; Assistant Editor, Journal of Experimental Psychology.*

500 W. Thirty-Third St.

JOSEPH CHRISTIE WHITNEY FRAZER, PH. D., *Professor of Analytical Chemistry.*

S. B., Kentucky State College, 1897, and M. S., 1898; Fellow, Johns Hopkins University, 1900-01, and Ph. D., 1901; Foreign Member, Utrecht Society of Arts and Sciences; *Member of the Academic Council.*

2611 N. Charles St.

E. EMMET REID, PH. D., LL. D., *Professor of Organic Chemistry.*

A. M., Richmond College, 1894; Fellow, Johns Hopkins University, 1897-98; Ph. D., 1898, Johnston Scholar, 1909-11; Professor of Chemistry, Charleston College, 1898-1901, and Baylor University, 1901-08; LL. D., Richmond College, 1917.

203 E. 33d St.

WILLIAM GEORGE MACCALLUM, M. D., *Baxley Professor of Pathology.*

A. B., University of Toronto, 1894; M. D., Johns Hopkins University, 1897; Resident House Officer, Resident Bacteriologist and Assistant Resident and Resident Pathologist, 1897-1909; Associate Professor of Pathology, 1900-08; Professor of Pathological Physiology and Lecturer in Forensic Medicine, 1908-1909. Visiting Pathologist, Presbyterian Hospital, and Professor of Pathology, Columbia University, 1908-1917; *Pathologist-in-Chief, Johns Hopkins Hospital.*

615 St. Paul St.

FLORENCE RENA SABIN, M. D., SC. D., *Professor of Histology.*

S. B., Smith College, 1893, and Sc. D., 1910; M. D., Johns Hopkins University, 1900; *Co-Editor of the Anatomical Record.*

1325 Park Av.

EDWARD WILBER BERRY, *Professor of Paleontology.*

3508 Park Heights Av.

ELMER VERNER MCCOLLUM, PH. D., *Professor of Bio-Chemistry, School of Hygiene and Public Health.*

A. B., University of Kansas, 1903, and A. M., 1904; Ph. D., Yale University, 1906; Instructor, Assistant Professor, Associate Professor, and Professor of Agricultural Chemistry, University of Wisconsin, 1907-1917.

Talbot Rd., Windsor Hills.

GEORGE RENDEL GUILD, CAPTAIN, U. S. ARMY (RETIRED), *Collegiate Professor of Military Science and Tactics.*

United States Military Academy, 1903; Army Signal School, Fort Leavenworth, 1911.

3418 Guilford Terr.

RAYMOND PEARL, PH. D., *Professor of Biometry and Vital Statistics, School of Hygiene and Public Health.*

A. B., Dartmouth College, 1899; Ph. D., University of Michigan, 1902; Instructor in Zoölogy, University of Michigan, 1902-06, University of Pennsylvania, 1906-07; Biologist of the Maine Agricultural Experiment Station, 1907-17; Chief of the Statistical Division of the United States Food Administration, 1917-18; Member of the National Academy of Sciences and of the American Philosophical Society.

401 Hawthorne Rd., Roland Pk.

WILLIAM DAVID BOOKER, M. D., *Clinical Professor Emeritus of Pediatrics.*

M. D., University of Virginia, 1867; Associate in Pediatrics, the Johns Hopkins Hospital and Dispensary, 1889-1909.

208 W. Monument St.

SAMUEL THEOBALD, M. D., *Clinical Professor of Ophthalmology.*

M. D., University of Maryland, 1867; *Visiting Ophthalmologist.*

968 N. Howard St.

HENRY M. THOMAS, A. M., M. D., *Clinical Professor of Neurology.*

M. D., University of Maryland, 1884; A. M. (Hon.), Johns Hopkins University, 1902; *Visiting Neurologist.*

1228 Madison Av.

JERE WILLIAMS LORD, M. D., *Clinical Professor of Dermatology.*

A. B., Johns Hopkins University, 1884; M. D., University of Pennsylvania, 1887; *Visiting Dermatologist.*

1011 N. Charles St.

THOMAS CASPAR GILCHRIST, M. D., M. R. C. S., *Clinical Professor of Dermatology.*

M. R. C. S., and L. S. A., London, 1887; M. D. (Hon.), University of Maryland, 1907; *Visiting Dermatologist.*

107 St. John's Rd., Roland Park.

HENRY JOHNS BERKLEY, M. D., D. SC., *Clinical Professor of Psychiatry.*

M. D., University of Maryland, 1881, and D. Sc. (Hon.), 1907; Visiting Physician, City Detention Hospital, Bay View.

1305 Park Av.

†HUGH HAMPTON YOUNG, M. D., *Clinical Professor of Urology.* [*Lieut. Colonel, M. C., U. S. A.*]

A. B. and A. M., University of Virginia, 1893, and M. D., 1894; Instructor, Associate, and Associate Professor of Genito-Urinary Surgery, The Johns Hopkins Hospital, 1893-1914; *Visiting Urologist.*

Charles St. and Cold Spring Lane.

WILLIAM WOOD RUSSELL, M. D., *Associate Professor of Clinical Gynecology.*

M. D., University of Pennsylvania, 1890; *Assistant Visiting Gynecologist.*

1208 Eutaw Place.

THOMAS STEPHEN CULLEN, M. B., *Associate Professor of Clinical Gynecology.*

M. B., University of Toronto, 1890; *Assistant Visiting Gynecologist.*

20 E. Eager St.

ROBERT LEE RANDOLPH, A. M., M. D., *Associate Professor of Clinical Ophthalmology and Otology.*

M. D., University of Maryland, 1884; A. M. (Hon.), Johns Hopkins University, 1902; *Visiting Ophthalmologist.*

609 Park Av.

THOMAS BARNES FUTCHER, M. B., *Associate Professor of Clinical Medicine.*

M. B., University of Toronto, 1898; *Assistant Visiting Physician.*

23 W. Franklin St.

JOSEPH COLT BLOODGOOD, M. D., *Associate Professor of Clinical Surgery.* [*Major, M. C.*]

S. B., University of Wisconsin, 1888; M. D., University of Pennsylvania, 1891; *Assistant Visiting Surgeon.*

904 N. Charles St.

CASWELL GRAVE, PH. D., *Associate Professor of Zoology.*

S. B., Earlham College, 1895; Fellow, Johns Hopkins University, 1898-99, Ph. D., 1899, and Bruce Fellow, 1900-01; Director of Research, Fisheries Laboratory, Beaufort, N. C.; Shell Fish Commissioner for State of Maryland, 1906-12.

106 Wyndhurst Av., Embla Park.

WILLIAM WEBBER FORD, M. D., D. P. H., *Associate Professor of Bacteriology, School of Hygiene and Public Health.*

A. B., Adelbert College, 1893; M. D., Johns Hopkins University, 1898; D. P. H., McGill University, 1900; Fellow, McGill University, 1898-1901, and Rockefeller Institute, 1901-02.

1124 N. Calvert St.

MAX BROEDEL, *Associate Professor of Art as Applied to Medicine.*

Academy of Arts, Leipzig, 1885-90; Illustrator, University of Leipzig, until 1894.

320 Suffolk St., Guilford.

†WILLIAM STEVENSON BAER, M. D., *Associate Professor of Clinical Orthopedic Surgery.* [*Major, M. C.*]

A. B., Johns Hopkins University, 1894, and M. D., 1898; *Assistant Visiting Orthopedic Surgeon.*

4 E. Madison St.

DONALD RUSSELL HOOKER, M. D., *Associate Professor of Physiology.*

A. B., Yale University, 1899, and M. S., 1901; M. D., Johns Hopkins University, 1905; *Managing Editor, American Journal of Physiology.*

Upland, Roland Park.

SAMUEL OTTMAR MAST, PH. D., *Associate Professor of Zoölogy* (*Professor elect*).

S. B., University of Michigan, 1899; Ph. D., Harvard University, 1906; Instructor and Professor of Biology, Hope College, Mich., 1899-1908; Johnston Scholar, Johns Hopkins University, 1907-08; Cartwright Prizeman, College of Physicians and Surgeons, Columbia University, 1909; Associate Professor of Biology and Professor of Botany, Goucher College, 1908-11.

401 Hawthorne Rd., Roland Pk.

†THOMAS RICHMOND BOGGS, M. D., *Associate Professor of Clinical Medicine.* [*Major, M. C.*]

S. B., University of Georgia, 1896; M. D., Johns Hopkins University, 1901; Physician-in-Chief, City Hospital, Baltimore; *Assistant Visiting Physician.*

21 W. Chase St.

WILLIAM KURRELMEYER, PH. D., *Associate Professor of German.*

A. B., Johns Hopkins University, 1896, Fellow, 1897-99, and Ph. D., 1899; Professor of Modern Languages, Franklin and Marshall College, 1899-1900; *Co-editor, Modern Language Notes.*

2120 Maryland Av.

CHARLES DAVID SNYDER, PH. D., *Associate Professor of Physiology.*

A. B., Leland Stanford Jr. University, 1896; M. S., University of California, 1904, and Ph. D., 1905; Fellow, Instructor, and Associate, Johns Hopkins University, 1907-11.

730 Wyndhurst Av., Roland Park.

A. HERMAN PFUND, PH. D., *Associate Professor of Physics.*

S. B., University of Wisconsin, 1901; Fellow, Johns Hopkins University, 1905-06, Ph. D., 1906, Assistant, 1906-07, and Johnston Scholar, 1907-09.

3023 Guilford Av.

BENJAMIN FRANKLIN LOVELACE, PH. D., *Associate Professor of Chemistry.*

S. B., University of Alabama, 1904; Fellow, Johns Hopkins University, 1906-07, Ph. D., 1907, and Assistant, 1907-08; Professor of Chemistry, University of Alabama, 1908-11.

Calvert Court Apts.

§ANDRÉ MORIZE, AGRÉGÉ DES LETTRES, *Associate Professor of French Literature.*

University of France (Bachelier ès Lettres, 1900; Licencié ès Lettres, 190; Elève de l'Ecole Normale Supérieure (1905-1908); Agrégé des Lettres, 1908); Professeur au Lycée de Montauban, 1908-1910, et au Lycée de Bordeaux, 1910-1913.

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† On leave for hospital service in France.

§ On leave for military service with the French army.

ALEXANDER GRAHAM CHRISTIE, M. E., *Associate Professor of Mechanical Engineering.*

Diploma in Engineering, University of Toronto, 1901, and M. E., 1912; Instructor, Cornell University, 1904-05; Associate Professor of Steam and Gas Engineering, University of Wisconsin, 1909-14.
Homewood Apartments.

JOHN CALVIN FRENCH, PH. D., *Associate Professor of English.*

A. B., Johns Hopkins University, 1899, Fellow, 1903-04, and Ph. D., 1905.
3002 N. Calvert St.

AARON EMBER, PH. D., *Associate Professor of Semitic Languages.*

A. B., Johns Hopkins University, 1901, Fellow, 1903-04, Ph. D., 1904, and Rayner Fellow, 1904-10.
16 Queen Anne Rd., Windsor Hills.

§EDWARDS A. PARK, M. D., *Associate Professor of Pediatrics.*

A. B., Yale University, 1900; M. D., Columbia University, 1905, Instructor in Medicine and Pediatrics and Proudfit Fellow, 1909-12; *Associate Pediatrician.*
1529 Bolton St.

†CHARLES MACFIE CAMPBELL, M. D., *Associate Professor of Psychiatry.*

A. M., University of Edinburgh, 1897, B. Sc., 1900, M. B. Ch. B., 1902, and M. D., 1911; Instructor, Cornell Medical School, 1910-13; Member, Royal College of Physicians, Edinburgh; *Associate Psychiatrist.*
21 Talbot Rd., Windsor Hills.

ABRAHAM COHEN, PH. D., *Associate Professor of Mathematics.*

A. B., Johns Hopkins University, 1891, Fellow, 1893-94, and Ph. D., 1894; *Associate Editor, American Journal of Mathematics and American Mathematical Monthly.*
1744 Park Av.

LOUIS VIRGIL HAMMAN, M. D., *Associate Professor of Clinical Medicine.*

A. B., Rock Hill College, 1896; M. D., Johns Hopkins University, 1901; *Assistant Visiting Physician.*
714 Park Av.

JOHN TIMOTHY GERAGHTY, M. D., *Associate Professor of Clinical Urology.*

A. B., St. Thomas College (Minn.), 1895; Ph. B., St. Paul Seminary (Minn.), 1897; M. D., Johns Hopkins University, 1903; *Assistant Visiting Urologist.*
Charles St. and Whitfield Rd.

†FREDERICK HARRY BAETJER, M. D., *Associate Professor of Clinical Roentgenology.* [*Major, M. C.*]

A. B., Johns Hopkins University, 1897, and M. D., 1901; *Roentgenologist.*
4 E. Madison St.

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§ On leave for Red Cross work.
† On leave for military service.

RALPH VAN DEMAN MAGOFFIN, PH.D., *Associate Professor of Greek and Roman History.* [*Major, Q. M. C.*]

A. B., University of Michigan, 1902; Instructor in Latin and Greek, Marietta College Academy, 1902-05; Fellow, American School of Classical Studies, Rome, 1906-07; Fellow, Johns Hopkins University, 1907-08, and Ph. D., 1908; Archæological Institute of America (Recorder, 1914-); *Director, Bureau of Appointments; Associate Editor, Art and Archaeology.*

SAMUEL JAMES CROWE, M. D., *Associate Professor of Clinical Laryngology.*

A. B., University of Georgia, 1904; M. D., Johns Hopkins University, 1908; *Visiting Laryngologist, Rhinologist, and Otologist.*

1206 Linden Av.

PAUL WISWALL CLOUGH, M. D., *Associate Professor of Medicine.*

S. B., University of Wisconsin, 1903; M. D., Johns Hopkins University, 1907, Assistant, Instructor, and Associate, 1908-16; *Associate Physician.*

3905 Cloverhill Rd.

†CLYDE GRAEME GUTHRIE, M. D., *Associate Professor of Medicine.* [*Captain, M. C.*]

A. B., Lafayette College, 1903; M. D., Johns Hopkins University, 1907. Assistant Instructor, and Associate, 1908-16; *Associate Physician, in charge of the Clinical Laboratory.*

16 E. Biddle St.

†GEORGE JULIUS HEUER, M. D., *Associate Professor of Surgery.* [*Captain, M. C.*]

S. B., University of Wisconsin, 1903; M. D., Johns Hopkins University, 1907, Instructor and Associate, 1912-16; *Associate Surgeon.*

16 E. Biddle St.

*§GRANDVILLE REYNARD JONES, C. E., S. B., *Associate Professor of Civil Engineering.* [*Captain, Sanitary Corps, U. S. A.*]

C. E., Ohio State University, 1904; S. B., Massachusetts Institute of Technology, 1907; Professor of Sanitary Engineering, University of Kansas, 1912-14.

ALLEN KRAMER KRAUSE, M. D., *Associate Professor of Medicine.*

A. B., Brown University, 1901; M. D., Johns Hopkins University, 1907, Assistant and Instructor, 1907-09; *Physician in charge, Phipps Tuberculosis Dispensary; Assistant Physician.*

3 Norwood Pl., Guilford.

ROBERT BRUCE ROULSTON, PH. D., *Associate Professor of German.*

A. B., Johns Hopkins University, 1900, Fellow, 1902-03, and Ph. D., 1906.

2706 Allendale Rd., Walbrook.

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§ On leave for government service.

† On leave for hospital service in France.

* Died December 22, 1918.

§ELI KENNERLY MARSHALL, JR., PH. D., M. D., *Associate Professor of Pharmacology.* [*Captain, M. C.*]

S. B., College of Charleston, 1908; Ph. D., Johns Hopkins University, 1911, and M. D., 1917. 3406 Rodman St., N. W., Washington.

JOSEPH THEOPHILUS SINGEWALD, JR., PH. D., *Associate Professor of Economic Geology.*

A. B., Johns Hopkins University, 1906, Fellow, 1907-08, Ph. D., 1909, and Henry E. Johnston Scholar, 1910-13. 17 W. 29th St.

LEWIS HILL WEED, M. D., *Associate Professor of Anatomy.* [*Captain, M. C.*]

A. B., Yale University, 1908, and A. M., 1909; M. D., Johns Hopkins University, 1912. Latrobe Apartments.

§DAVID WRIGHT WILSON, PH. D., *Associate Professor of Physiological Chemistry.* [*Lieut., A. E. F., France*]

S. B., Grinnell College, 1910; Ph. D., Yale University, 1914.

EDWIN PRESTON DARGAN, PH. D., *Lecturer in French Literature.*

A. B., Bethel College, 1899; Fellow, Johns Hopkins University, 1905-06, and Ph. D., 1906; late Adjunct Professor, University of Virginia; Associate Professor of French Literature, University of Chicago.

DAVID SIMON BLONDHEIM, PH. D., *Associate Professor of French.*

Johns Hopkins University (A. B., 1906, Fellow, 1909-10, Ph. D., 1910, Johnston Scholar, 1913-14); Instructor, Associate, and Assistant Professor of Romance Languages, University of Illinois, 1910-17.

[Absent.]

WILLIAM B. KOUWENHOVEN, DR.-ING., *Associate Professor of Electrical Engineering.* [*Captain, R. O. T. C.*]

E. E., Brooklyn Polytechnic Institute, 1906, and M. E., 1907; Doktor-Ingenieur, Karlsruhe, Germany, 1913; Instructor in Electrical Engineering, Brooklyn Polytechnic Institute, 1907, and Washington University, 1913-14.

Uffington Rd., Mt. Washington.

JOHN HENRY BRINGHURST, B. C. E., *Associate Professor of Civil Engineering.*

B. C. E., University of Michigan, 1910, Instructor and Assistant Professor, 1913-16. 3515 Springdale Av.

WALTER A. PATRICK, PH. D., *Associate Professor of Chemistry.*

B. S., Syracuse University, 1910; Swett Fellow, Massachusetts Institute of Technology, 1912-14; Ph. D., University of Göttingen, 1914; Research Assistant, University College, London, 1914-15. 502 E. 39th St.

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§ On leave for government service.

CARROLL GIDEON BULL, M. D., *Associate Professor of Immunology, School of Hygiene and Public Health.*

S. B., Peabody College, 1907; M. D., University of Nashville, 1909; Pathologist to Lincoln Memorial Hospital, 1910-1912; Assistant, Nelson Morris Institute for Medical Research, 1912-1913; Assistant and Associate in Pathology and Bacteriology, The Rockefeller Institute for Medical Research, 1913-1918.

214 E. 20th St.

EMIL GOETSCH, PH. D., M. D., *Associate Professor of Surgery.*

S. B., University of Chicago, 1903, and Ph. D., 1906; M. D., Johns Hopkins University, 1909; Assistant in Surgery, Harvard University, 1912-15; *Associate Surgeon.*

2012 Edgewood St.

RICHARD HOLDEN FOLLIS, M. D., *Associate Professor of Clinical Surgery.*

Ph. B., Yale University, 1895; M. D., Johns Hopkins University, 1899; *Assistant Visiting Surgeon.*

3 E. Read St.

*ADMONT HALSEY CLARK, M. D., *Associate Professor of Pathology.*

A. B., Oberlin College, 1910; M. D., Johns Hopkins University, 1915; *Assistant Resident Pathologist.*

JOHN HERBERT GREGORY, S. B., *Associate Professor of Civil Engineering.*

S. B., Massachusetts Institute of Technology, 1895; Member, American Society of Civil Engineers.

120 Roland Av., Roland Pk.

FRANK ROBERT SMITH, M. D., *Associate in Clinical Medicine.*

A. M., University of Cambridge, 1882; M. D., University of Maryland, 1891; *Dispensary Physician.*

1126 Cathedral St.

OLIVER LANARD FASSIG, PH. D., *Associate in Meteorology.*

S. B., Ohio State University, 1882; Ph. D., Johns Hopkins University, 1899.

300 E. Thirtieth St.

GUY LEROY HUNNER, M. D., *Associate in Clinical Gynecology.*

S. B., University of Wisconsin, 1893; M. D., Johns Hopkins University, 1897; *Assistant Visiting Gynecologist.*

2305 St. Paul St.

WILLIAM ROSENAU, PH. D., *Associate in Post-Biblical Hebrew.*

A. B., University of Cincinnati, 1888; Hebrew Union College of Cincinnati, 1889; Ph. D., Johns Hopkins University, 1900.

1515 Eutaw Place.

LOUIS PHILIP HAMBURGER, M. D., *Associate in Clinical Medicine.*

A. B., Johns Hopkins University, 1892, and M. D., 1897; *Dispensary Physician.*

1207 Eutaw Place.

THOMAS RICHARDSON BROWN, M. D., *Associate in Clinical Medicine.*

A. B., Johns Hopkins University, 1892, and M. D., 1897; *Assistant Visiting Physician.*

17 W. Biddle St.

* Died October 13, 1918.

FRANK RINGGOLD BLAKE, PH. D., *Associate in Oriental Languages.*
A. B., Johns Hopkins University, 1897, Fellow, 1898-1902, and Ph. D., 1902.
Carroll Rd., Windsor Hills.

ELIZABETH HURDON, M. D., *Associate in Clinical Gynecology.*
M. D., Trinity University (Toronto), 1895.
31 W. Preston St.

JAMES HALL MASON KNOX, JR., PH. D., M. D., *Associate in Clinical Pediatrics.*
A. B., Yale University, 1892, and Ph. D., 1894; A. M., Lafayette College, 1896; M. D., Johns Hopkins University, 1898; *Assistant Visiting Pediatrician.*
211 Wendover Rd., Guilford.

EDWARD HENDERSON RICHARDSON, M. D., *Associate in Clinical Gynecology.*
A. B., Hampden-Sidney College, 1900; M. D., Johns Hopkins University, 1905; *Assistant Visiting Gynecologist.*
1200 N. Charles St.

JOHANNES MATTERN, *Assistant Librarian.*
Universities of Münster and Bonn, 1904-07; Librarian in Charge, Bureau of Statistics, Department of Commerce and Labor, 1910-11.
2611 Maryland Av.

CHARLES ROBERT AUSTRIAN, M. D., *Associate in Clinical Medicine.*
A. B., Johns Hopkins University, 1904, and M. D., 1909; *Dispensary Physician, Phipps Dispensary.*
1417 Eutaw Place.

KARL MILLER WILSON, M. D. C. M., *Associate in Clinical Obstetrics.*
M. D. C. M., McGill University, 1908; *Assistant Visiting Obstetrician.*
23 W. Chase St.

†WALTER ALBERT BAETJER, M. D., *Associate in Clinical Medicine.* [*Captain, M. C.*]
A. B., Johns Hopkins University, 1905, and M. D., 1909; *Assistant in Clinical Laboratory.*
16 W. Madison St.

PAUL DUDLEY LAMSON, M. D., *Associate in Exper. Therapeutics.*
A. B., Harvard University, 1905, and M. D., 1909.
1807 N. Caroline St.

EDGAR RANDOLPH STROBEL, M. D., *Associate in Clinical Dermatology.*
A. B., Johns Hopkins University 1895, and M. D., 1899; *Dispensary Dermatologist.*
104 Longwood Rd., Roland Park.

†DAVID MELVIN DAVIS, M. D., *Associate in Urology.* [*Lieut., M. C.*]
S. B., Princeton University, 1907; M. D., Johns Hopkins University, 1911; *Assistant in Urology, the Johns Hopkins Hospital.*
709 St. Paul St.

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† On leave for hospital service in France.

PAUL BELL DAVIS, PH. D., *Associate in Chemistry.*

A. B., Roanoke College, 1908, and A. M., 1909; Ph. D., Johns Hopkins University, 1912.

1318 Bolton St.

GEORGE E. BENNETT, M. D., *Associate in Clinical Orthopedic Surgery.*

M. D., University of Maryland, 1909; *Assistant Visiting Surgeon.*

4 E. Madison St.

HENRY SLONIMSKY, PH. D., *Associate in Philosophy.*

Ph. D., University of Marburg, 1912; Lecturer in Philosophy, Columbia University, 1914-15.

3912 Maine Av.

THOMAS PECK SPRUNT, M. D., *Associate in Clinical Medicine.*

A. B., Davidson College, 1903; M. D., Johns Hopkins University, 1909.

1035 N. Calvert St.

ARTHUR LEONARD BLOOMFIELD, M. D., *Associate in Medicine.*

A. B., Johns Hopkins University, 1907, and M. D., 1911; Resident House Officer, the Johns Hopkins Hospital, 1911-12; *Resident Physician and Medical Adviser to the Students.*

The Johns Hopkins Hospital.

KENNETH DANIEL BLACKFAN, M. D., *Associate in Pediatrics.*

M. D., Albany Medical College, 1905; *Resident Pediatrician.*

1035 N. Calvert St.

†HENRY CHRISTIAN SCHMEISSER, M. D., PH. D., *Associate in Pathology.*

[*Captain, M. C.*]

A. B., Johns Hopkins University, 1908, M. D., 1912, Ph. D., 1914, and Fellow in Pathology, 1912-1914.

4339 N. Charles St.

FLORENCE EILAU BAMBERGER, A. M., *Associate in Education.*

S. B., Columbia University, 1914, and A. M., 1915.

210 Laurens St.

†STANHOPE BAYNE-JONES, M. D., A. M., *Associate in Bacteriology.*

[*Captain, M. C.*]

A. B., Yale University, 1910; M. D., Johns Hopkins University, 1914, and A. M., 1917; Assistant Resident Pathologist, the Johns Hopkins Hospital, 1915-16.

VICTOR EMANUEL NELSON, M. S., *Associate in Bio-Chemistry, School of Hygiene and Public Health.*

S. B., University of Wisconsin, 1912, and M. S., 1914; Assistant and Instructor in Agricultural Chemistry, University of Wisconsin, 1912-1917.

3410 Beech Av.

GUSTAV GRUENBAUM, PH. D., *Associate in Romance Languages.*

A. B., University of Bucarest, 1902; Fellow, Johns Hopkins University, 1910-11, and Ph. D., 1912.

2613 Maryland Av.

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† On leave for medical service in France.

§LEO WOLMAN, PH. D., *Associate in Political Economy.*

Johns Hopkins University (A. B., 1911, Fellow, 1913-14, Ph. D., 1914, Lecturer, 1915-16); Professor, Hobart College, 1914-15; Instructor in Political Economy, University of Michigan, 1916-17.

§CHARLES BAGLEY, JR., M. D., *Associate in Experimental Neurology.*

[Captain, M. C.]

M. D., University of Maryland, 1904. 5 W. Chase St.

GEORGE LANE TANEYHILL, JR., M. D., *Associate in Clinical Neurology.*

A. B., Johns Hopkins University, 1900, and M. D., 1904; *Dispensary Neurologist.*

1402 Eutaw Place.

CHARLES METCALFE BYRNES, M. D., *Associate in Clinical Neurology.*

S. B., University of North Carolina, 1902; M. D., Johns Hopkins University, 1906; Adjunct Professor of Anatomy, University of Virginia, 1908-09; *Dispensary Neurologist.*

207 E. Preston St.

SYDNEY ROBOTHAM MILLER, M. D., *Associate in Clinical Medicine.*

S. B., New York University, 1905; M. D., Johns Hopkins University, 1910; *Clinical Laboratory.*

108 St. John's Rd.

MYRICK WHITING PULLEN, S. B., *Associate in Electrical Engineering.*

S. B. in E. E., Iowa State College, 1908, and Instructor, 1908-10.

2305 N. Calvert St.

ALBERT KEIDEL, M. D., *Associate in Clinical Medicine.*

A. B., Johns Hopkins University, 1900, and M. D., 1903; *Dispensary Physician.*

2 W. Biddle St.

LLOYD WARREN KETRON, M. D., *Associate in Clinical Dermatology.*

A. B., Grant University, 1907; M. D., Johns Hopkins University, 1911; *Dispensary Dermatologist.*

900 St. Paul St.

WALTER EDWARD DANDY, M. D., A. M., *Associate in Surgery.*

A. B., University of Missouri, 1907; M. D., Johns Hopkins University, 1910, and A. M., 1911; *Assistant Surgeon.*

The Johns Hopkins Hospital.

ELLIS MILLER, PH. D., *Associate in Chemistry.*

A. B., Johns Hopkins University, 1912, Fellow, 1914-15, and Ph. D., 1915.

800 Reservoir St.

ERASMO BUCETA, DOCTOR EN DERECHO, *Associate in Spanish.*

Licenciado en Derecho, University of Madrid, 1914, and Doctor en Derecho, 1916.

Johns Hopkins Club.

H. HAYS BULLARD, PH. D., M. D., *Associate in Pathology.*

A. B., University of Missouri, 1908, and A. M., 1909; Ph. D., Tulane University, 1912; M. D., Johns Hopkins University, 1916; *Resident Pathologist.*

The Johns Hopkins Hospital.

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§ On leave for government service.

STANLEY COBB, M. D., *Associate in Psychiatry and Physiology of the Nervous System.* [*Lieut., M. C.*]

A. B., Harvard University, 1910, and M. D., 1914.

612 N. Broadway.

LLOYD DERR FELTON, M. D., *Associate in Bacteriology.*

A. B., Wooster University, 1910; M. D., Johns Hopkins University, 1916; *Externe, the Johns Hopkins Hospital.*

1601 N. Broadway.

JULIAN CHASE SMALLWOOD, M. E., A. M., *Associate in Mechanical Engineering.*

M. E., Columbia University, 1903, and Assistant, 1904-05; A. M., Johns Hopkins University, 1917; Instructor, University of Pennsylvania, 1908-10; Associate Professor of Experimental Engineering, Syracuse University, 1910-16.

3137 N. Calvert St.

ROBERT ARMISTEAD STEWART, M. A., PH. D., *Associate in Romance Languages.*

University of Virginia (B. A. and M. A., 1901, Ph. D., 1903, Instructor, 1902-03); Instructor, Tulane University, 1903-04; Acting Professor, Randolph-Macon College, 1904-05; Professor of Romance Languages, Richmond College, 1905-17.

1418 Linden Av.

EVERETT DUDLEY PLASS, M. D., *Associate in Obstetrics.*

A. B., Colgate University, 1907; M. D., Johns Hopkins University, 1911, Assistant and Instructor, 1912-17; *Assistant Visiting Obstetrician.*

GEORGE HENRY ROBINSON, PH. D., *Associate in Bacteriology, School of Hygiene and Public Health.*

A. B., Bates College, 1911; A. B., Brown University, 1912; Ph. D., Brown University, 1914; Research Laboratory, H. K. Mulford Company, 1914-1918.

3818 Barrington Road.

REYNOLD ALBRECHT SPAETH, PH. D., *Associate in Physiology, School of Hygiene and Public Health.*

S. B., Haverford College, 1909; M. A., Harvard University, 1910; Ph. D., Harvard University, 1913; Sheldon Fellow, Physiological Institute, Kiel, 1913-1914; Instructor in Biology, Clark College, 1914-1915; Instructor in Biology, Yale University, 1915-18.

212 Longwood Road, Roland Park.

LOWELL JACOB REED, PH. D., *Associate in Biometry and Vital Statistics, School of Hygiene and Public Health.*

S. B., University of Maine, 1907; M. S., University of Maine, 1912; Ph. D., University of Pennsylvania, 1916; Assistant Professor of Mathematics, University of Maine, 1916-1917; Director of Bureau of Tabulation and Statistics, War Trade Board, Washington, 1917-1918.

Riderwood.

EUGÈNE L. HUET, LICENCIÉ ÈS LETTRES, *Associate in French.*

Bach. ès Lettr., University of Paris (Sorbonne), 1907; Licenciè ès Lettr., University of Paris, 1913; French Exchange Assistant at the Royal Gymnasium, Dresden, 1913-1914.

2706 N. Charles St.

FRANCIS DOMINIC MURNAGHAN, PH. D., *Associate in Applied Mathematics.*

A. B., National University of Ireland, 1913, and A. M., 1914; Ph. D., Johns Hopkins University, 1916; Instructor in Mathematics, Rice Institute, 1916-18.

Johns Hopkins Club.

HERMAN IVAH THOMSEN, PH. D., *Lecturer in Mathematics.*

A. B., Harvard University, 1881; Ph. D., Johns Hopkins University, 1909.

1928 Mt. Royal Av.

JOHN RICE MINER, A.B., *Associate in Biometry and Vital Statistics, School of Hygiene and Public Health.*

A. B., University of Michigan, 1913; Computer, Maine Agricultural Experiment Station, 1913-1917; Biometrician, Statistical Division, U. S. Food Administration, 1917-1918.

2406 Callow Av.

ROBERT WILLIAM HEGNER, PH. D., *Associate in Protozoölogy, School of Hygiene and Public Health.*

S. B., University of Chicago, 1903, and S. M., 1904; Ph. D., University of Wisconsin, 1908; Instructor, University of Michigan, 1908-1910, and Assistant Professor, 1910-1917; Johnston Scholar, Johns Hopkins University, 1917-1918.

712 Linwood Av., Tuxedo Pk.

WILLIAM WALTER CORT, PH. D., *Associate in Helminthology, School of Hygiene and Public Health.*

A. B., Colorado College, 1909; A. M., University of Illinois, 1911, and Ph. D., 1914; Professor of Biology, Macalester College, 1914-1917; Assistant Professor of Parasitology, University of California, 1917-1919; Consulting Helminthologist, State Board of Health, California, 1918-1919.

312 W. Monument St.

WILLIAM CABLER MOORE, PH. D., *Associate in Immunology, School of Hygiene and Public Health.*

S. B., Peabody College, 1903; Fellow, University of Chicago, 1907-09, and Ph. D., 1910; Instructor, Columbia University, 1909-13.

312 W. Monument St.

SAMUEL EDWIN WHITEMAN, *Instructor in Drawing.*

Ecole des Beaux-Arts, Paris.

Mt. Washington.

JACOB HALL PLEASANTS, M. D., *Instructor in Clinical Medicine.*

A. B., Johns Hopkins University, 1895, and M. D., 1899; *Dispensary Physician.*

201 Longwood Rd., Roland Park

WILLIAM RUSH DUNTON, JR., M. D., *Instructor in Clinical Psychiatry*

S. B., Haverford College, 1889, and A. M., 1890; M. D., University of Pennsylvania, 1893; Assistant Physician, Sheppard and Pratt Hospital; *Dispensary Psychiatrist.*

714 E. Evesham Av., Govans

JAMES JOSEPH MILLS, M. D., *Instructor in Clinical Ophthalmology.*

M. D., Baltimore Medical College, 1889; *Dispensary Ophthalmologist.*

853 Park Av

RONALD TAYLOR ABERCROMBIE, M. D., *Director of the Gymnasium.*

A. B., Johns Hopkins University, 1901, and M. D., 1905.

10 Whitfield Rd., Guilford.

†JOSEPH ALBERT CHATARD, M. D., *Instructor in Clinical Medicine* [*Major, M. C.*]

A. B., Loyola College, 1898; M. D., Johns Hopkins University, 1903; *Dispensary Physician.*

40 W. Biddle St

CHARLES WILLIAM LARNED, M. D., *Instructor in Clinical Medicine.*

M. D., University of Maryland, 1893; *Dispensary Physician.*

1327 Park Av

§HENRY LEE SMITH, A. M., M. D., F. R. S. A. (Lond.), *Instructor in Clinical Medicine.* [*Captain, M. C.*]

M. D., University of Maryland, 1894; A. M. (Hon.), St. John's College (Md.) 1909; Fellow, Royal Society of Arts of London, 1914; *Dispensary Physician.*

2701 N. Calvert St

SAMUEL WOLMAN, M. D., *Instructor in Clinical Medicine.*

A. B., Johns Hopkins University, 1902, and M. D., 1906; *Dispensary Physician.*

2407 Madison Av

†JOHN HENDRICKEN KING, M. D., *Instructor in Clinical Medicine* [*Lieut., M. C.*]

A. B., Johns Hopkins University, 1899, and M. D., 1906; *Dispensary Physician.*

1227 N. Calvert St

†RHODES FAYERWEATHER, M. D., *Instructor in Clinical Orthopedic Surgery.* [*Captain, M. C.*]

A. B., Harvard University, 1899; M. D., Johns Hopkins University, 1903; *Dispensary Surgeon.*

529 N. Charles St

†BERTRAM MOSES BERNHEIM, M. D., *Instructor in Clinical Surgery.* [*Major, M. C.*]

A. B., Johns Hopkins University, 1901, and M. D., 1905; *Dispensary Surgeon.*

2313 Eutaw Pl.

JOHN STAIGE DAVIS, M. D., *Instructor in Clinical Surgery.* [*Captain, M. C.*]

Ph. B., Yale University, 1895; M. D., Johns Hopkins University, 1899; *Assistant Visiting Surgeon.*

1200 Cathedral St.

†WILLIAM ALEXANDER FISHER, M. D., *Instructor in Clinical Surgery.* [*Major, M. C.*]

A. B., Princeton University, 1896; M. D., Johns Hopkins University, 1900; *Dispensary Surgeon.*

715 Park Av.

EUGENE JOSEPH LEOPOLD, M. D., *Assistant in Clinical Medicine.*

A. B., Johns Hopkins University, 1901, and M. D., 1905; *Dispensary Physician.*

803 Park Av.

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† On leave for hospital service in France.

§ On leave for medical service.

OMAR BORTON PANCOAST, M. D., *Instructor in Clinical Surgery.*

S. B., Swarthmore College, 1893; M. D., Johns Hopkins University, 1897; *Dispensary Surgeon.*

1111 N. Charles St.

TRIGANT BURROW, M. D., PH. D., *Assistant in Clinical Psychiatry.*

A. B., Fordham University, 1895; M. D., University of Virginia, 1899; Ph. D., Johns Hopkins University, 1909, and Assistant in Psychology, 1907-09; *Assistant Dispensary Psychiatrist.*

Washington Apartments.

MARTIN FRANCIS SLOAN, M. D., *Instructor in Clinical Medicine.*

M. D., Baylor University, 1907; Resident Physician, Eudowood Sanatorium; *Dispensary Surgeon.*

Eudowood.

JULIA ANNA GARDNER, PH. D., *Assistant in Paleontology.*

A. B., Bryn Mawr College, 1905, and A. M., 1907; Fellow, Johns Hopkins University, 1908-09, and Ph. D., 1911.

2026 P. St., N. W., Washington.

ISAAC ROSENBAUM PELS, M. D., *Assistant in Clinical Dermatology.*

A. B., Johns Hopkins University, 1902, and M. D., 1906; *Dispensary Dermatologist.*

922 W. North Av.

†EVELETH WILSON BRIDGMAN, M. D., *Instructor in Medicine.* [*Captain, M. C.*]

A. B., Johns Hopkins University, 1908, and M. D., 1912; *Assistant Physician.*

1707 Park Av.

†HARRY RICHMOND SLACK, JR., M. D., *Instructor in Clinical Laryngology.* [*Lieut., M. C.*]

A. B., University of Georgia, 1908; M. D., Johns Hopkins University, 1912; *Assistant Dispensary Laryngologist.*

1100 N. Charles St.

†HARVEY BRINTON STONE, M. D., *Instructor in Clinical Surgery.* [*Captain, M. C.*]

A. B., Johns Hopkins University, 1902, and M. D., 1906; Adjunct Professor of Surgery, University of Virginia, 1907-10; *Dispensary Surgeon.*

18 W. Franklin St.

LEO JOHN GOLDBACH, M. D., *Instructor in Clinical Ophthalmology.*

A. B., Loyola College, 1901; M. D., University of Maryland, 1905; *Dispensary Ophthalmologist.*

322 N. Charles St.

ROBERT LOUIS LEVY, M. D., *Instructor in Medicine.* [*Captain, M. C.*]

A. B., Yale University, 1909; M. D., Johns Hopkins University, 1913; *Assistant Resident Physician.*

The Johns Hopkins Hospital.

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† On leave for hospital service in France.

ROBERT WILLIAM BAINBRIDGE MAYO, M. D., *Instructor in Clinical Medicine.*

A. B., Maryland Agricultural College, 1902, and M. S., 1904; M. D., Johns Hopkins University, 1908; *Dispensary Physician.*

819 N. Charles St.

MONT ROGERS REID, M. D., *Instructor in Surgery.*

A. B., Roanoke College, 1908; M. D., Johns Hopkins University, 1912; *Resident Surgeon.*

The Johns Hopkins Hospital

JOHN SCOTT WILLOCK, M. D., *Instructor in Clinical Dermatology.*

S. B., Princeton University, 1900; M. D., Johns Hopkins University, 1904; *Assistant Dispensary Dermatologist.*

801 Falls Rd. Terr., Roland Pk.

PAUL GALPIN SHIPLEY, M. D., *Instructor in Pediatrics.*

M. D., Yale University, 1913; *Assistant Dispensary Pediatrician.*

2412 Linden Av.

MILDRED CLARK CLOUGH, M. D., *Instructor in Medicine.*

A. B., Wellesley College, 1910; M. D., Johns Hopkins Univresity, 1914; *Assistant in the Biological Laboratory, the Johns Hopkins Hospital.*

3905 Cloverhill Rd.

WILLIAM ARCHIBALD FRONTZ, M. D., *Instructor in Urology.*

A. B., Princeton University, 1907; M. D., Johns Hopkins University, 1911; *Assistant Urologist.*

1119 N. Caroline St.

JAMES LAWDER GAMBLE, M. D., *Instructor in Pediatrics.* [*Capt. M. C.*]

A. B., Leland Stanford Jr. University, 1906; M. D., Harvard University, 1910; *Dispensary Physician.*

7 Northfield Pl., Roland Pk.

†SAMUEL GOLDSCHMIDT, PH. D., *Instructor in Pathological Chemistry.* [*Lieut., M. C.*]

S. B., Yale University, 1911, and Ph. D., 1914; Fellow, University of Pennsylvania, 1914-15.

†ROSCOE WILLIS HALL, M. D., *Instructor in Psychology.* [*Captain, M. C.*]

Ph. D., Dickinson College, 1908; M. D., Johns Hopkins University, 1912.

The Johns Hopkins Hospital.

HAROLD LEONARD HIGGINS, A. B., *Assistant in Pediatrics.*

A. B., Harvard University, 1907. 1035 N. Calvert St.

FREDERICK WILLIAM HOBELMANN, M. D., *Instructor in Clinical Urology.*

M. D., Baltimore Medical College, 1901; *Dispensary Urologist.*

33 Gunther Building.

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† On leave for medical service.

MARY ASHMUN HODGE, M. D., *Instructor in Clinical Medicine.*

A. B., Leland Stanford Jr. University, 1908; M. D., Johns Hopkins University, 1914; *Dispensary Physician.*

2635 St. Paul St.

EMIL NOVAK, M. D., *Instructor in Clinical Gynecology.*

M. D., Baltimore Medical College, 1904; Associate Professor of Gynecology, College of Physicians and Surgeons, Baltimore.

26 E. Preston St.

CAROLINE BENSON TOWLES, M. D., *Assistant in Clinical Medicine.*

A. B., Woman's College of Baltimore, 1893; M. D., Johns Hopkins University, 1905; *Dispensary Physician.*

Arundel Apts.

†CHARLES ALEXANDER WATERS, M. D., *Instructor in Roentgenology.* [*Lieut., M. C.*]

M. D., University of Maryland, 1911; *Assistant Roentgenologist, the Johns Hopkins Hospital.*

1100 N. Charles St.

FRANK LLOYD WEAVER, B. C. E., *Instructor in Civil Engineering.*

B. C. E., University of Michigan, 1913; Instructor, University of Oklahoma, 1913-14.

[Absent.]

HOWARD EDWARD PULLING, PH. D., *Instructor in Plant Physiology.*

A. B., Beloit College, 1910; University of Wisconsin (Assistant, Fellow, Instructor, 1911-15, Ph. 4., 1915)! Research Assistant, Department of Botanical Research, Carnegie Institution of Washington, 1913.

3047 Abell Av.

THEODORE KISTLER, *Gymnasium Instructor.* Cottage Apartments.

†JOHN ARCHIBALD CAMPBELL COLSTON, M. D., *Instructor in Urology.* [*Captain, M. C.*]

Ph. B., Yale University, 1907; M. D., Johns Hopkins University, 1911; *Assistant Urologist.*

1016 St. Paul St.

ISIDORE I. HIRSCHMAN, M. D., *Instructor in Medicine.* [*Captain, M. C.*]

M. D., University of Maryland, 1911; *Assistant Physician.*

2516 Madison Av.

†CLARENCE ADOLPH NEYMANN, M. D., *Instructor in Psychiatry.* [*Lieut., M. C.*]

A. B., Harvard University, 1909; M. D., University of Heidelberg, 1915; *Assistant Psychiatrist in charge of Laboratory of Internal Medicine, Phipps Clinic.*

†CARL BINGER, M. D., *Assistant in Pharmacology.* [*Lieut., M. C.*]

A. B., Harvard University, 1910, and M. D., 1914.

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† On leave for hospital service in France.

JONATHAN EDWARD BURNS, JR., M. D., *Instructor in Urology.* [*Captain, M. C.*]

A. B., University of Virginia, 1-904; M. D., Johns Hopkins University, 1908; *Assistant in Urology.*

1035 N. Calvert St.

JAMES JULIAN CHISOLM, M. D., *Instructor in Laryngology.* [*Lieut., M. C.*]

A. B., Princeton University, 1911; M. D., Johns Hopkins University, 1916; *Assistant Dispensary Laryngologist.*

The Johns Hopkins Hospital.

EDWARD VINCENT COOLAHAN, M. D., *Assistant in Clinical Medicine.*

A. B., Rock Hill College, 1903; M. D., Johns Hopkins University, 1908; *Dispensary Physician.*

24 N. Fulton Av.

HOAGLAND COOK DAVIS, M. D., *Assistant in Clinical Laryngology.*

M. D., University of Maryland, 1902; *Assistant Dispensary Laryngologist.*

405 N. Charles St.

†FRANK ALEXANDER EVANS, M. D., *Instructor in Medicine.* [*Captain, M. C.*]

A. B., Washington and Jefferson College, 1910, and A. M., 1914; M. D., Johns Hopkins University, 1914; *Assistant Resident Physician.*

The Johns Hopkins Hospital.

JOSEPH EDWARD GATELY, M. D., *Assistant in Clinical Dermatology.* [*Lieut., M. C.*]

M. D., University of Maryland, 1902; *Assistant Dispensary Dermatologist.*

1822 N. Charles St.

*ERNEST GEORGE GREY, M. D., *Instructor in Surgery.*

A. B., University of Wisconsin, 1907; M. D., Johns Hopkins University, 1911; *Assistant Resident Surgeon.*

HARRY LOUIS HOMER, M. D., *Instructor in Clinical Surgery.*

M. D., University of Pennsylvania, 1904; *Dispensary Surgeon.*

714 Park Av.

MOSES RANDOLPH KAHN, M. D., *Instructor in Clinical Ophthalmology.* [*Lieut., M. C.*]

M. D., University of Maryland, 1912; *Dispensary Ophthalmologist.*

1822 N. Charles St.

JOHN THEODORE KING, JR., M. D., *Instructor in Clinical Medicine.* [*Lieut., M. C.*]

A. B., Princeton University, 1910; M. D., Johns Hopkins University, 1915; *Dispensary Physician.*

1425 Eutaw Place.

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§ On leave for government service.

* Died October 12, 1918.

FREDERICK WILLIAM LEE, M. E., E. E., *Instructor in Electrical Engineering.* 1909 W. Baltimore St.

M. E. and E. E., Cornell University, 1911; Assistant, Harvard University, 1911-13.

JOHN GARDNER MURRAY, JR., M. D., *Instructor in Obstetrics.* [*Captain, M. C.*]

A. B., Johns Hopkins University, 1911, and M. D., 1915; Resident Obstetrician, 1916-18.

Charles St. and University Pkway.

JOHN WILLIAM PIERSON, M. D., *Instructor in Clinical Roentgenology.*

M. D., University of Maryland, 1905; *Assistant Roentgenologist.*

900 St. Paul St.

GROVER FRANCIS POWERS, M. D., *Instructor in Pediatrics.*

S. B., Purdue University, 1908; M. D., Johns Hopkins University, 1913; *Pediatrician in charge of Pediatric Dispensary.*

1600 Bolton St.

†GEORGE LEWIS STICKNEY, M. D., *Voluntary Assistant in Clinical Gynecology.* [*Captain, M. C.*]

M. D., University of Maryland, 1910.

1612 Park Av.

RUTH ELDRED FAIRBANK, M. D., *Assistant in Psychiatry.*

A. B., University of Illinois, 1911; M. D., Johns Hopkins University, 1916; *Assistant Dispensary Psychiatrist.*

The Johns Hopkins Hospital.

PHYLLIS GREENACRE, M. D., *Assistant in Psychiatry.*

S. B., University of Chicago, 1913; M. D., Rush Medical College, 1916; *Dispensary Psychiatrist, Phipps Clinic.*

The Johns Hopkins Hospital.

JOHN WARTON HARRIS, M. D., *Instructor in Obstetrics.*

A. B., University of North Carolina, 1911, and A. M., 1912; M. D., Johns Hopkins University, 1916; *Resident Obstetrician.*

The Johns Hopkins Hospital.

§ALFRED C. KOLLS, M. D., *Assistant in Pharmacology.* [*Captain, M. C.*]

S. B., University of Wisconsin, 1914, and M. S., 1915; M. D., Johns Hopkins University, 1917.

BENJAMIN KRAMER, M. D., *Instructor in Pediatrics.*

M. D., University and Bellevue Hospital Medical College, 1909; M. S., State University of Iowa, 1917, Instructor in Physiology, 1913-15, and Assistant Professor, 1915-17; *Assistant Dispensary Pediatrician.*

The Johns Hopkins Hospital.

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† On leave for medical service in France.

§ On leave for government service.

EDWARD ANDERSON LOOPER, M. D., *Assistant in Clinical Ophthalmology.* [*Captain, M. C.*]

M. D., University of Maryland, 1912; *Dispensary Ophthalmologist.*

37 W. Preston St.

†WILLIAM LAWRENCE MILLEA, M. D., *Instructor in Obstetrics.* [*Lieut., M. C.*]

A. B., Clark University, 1908; M. D., Johns Hopkins University, 1912; *Assistant Visiting Obstetrician.*

HELEN TRACY PARSONS, M. S., *Instructor in Bio-Chemistry, School of Hygiene and Public Health.*

S. B., Kansas State Agricultural College, 1911; M. S., University of Wisconsin, 1916, Assistant and Instructor in Home Economics, 1913-1917.

1731 Fairmount Av.

ESTHER LORING RICHARDS, M. D., *Instructor in Psychiatry.*

A. B., Mt. Holyoke College, 1910; M. D., Johns Hopkins University, 1915; *Assistant Psychiatrist.*

33 E. Mt. Vernon Pl.

†ALMA SOPHIA ROTHHOLZ, M. D., *Assistant in Clinical Medicine.*

A. B., Smith College, 1910; M. D., Johns Hopkins University, 1914.

2108 Bolton St.

AARON SCHAFFER, PH. D., *Instructor in French and English.*

A. B., Johns Hopkins University, 1914, Fellow, 1916-17, and Ph. D., 1917.

2566 McCulloh St.

AUGUSTA SCOTT, M. D., *Instructor in Psychiatry.*

Ph. B., University of Chicago, 1905; M. D., Johns Hopkins University, 1913; *Resident Psychiatrist.*

The Johns Hopkins Hospital.

NINA SIMMONDS, M. D., *Instructor in Bio-Chemistry, School of Hygiene and Public Health.*

S. B., University of Wisconsin, 1915, Assistant in Agricultural Chemistry, 1915-17.

511 N. Wolfe St.

†DANIEL DELEHANTY VINCENT STUART, JR., M. D., *Assistant in Clinical Neurology.* [*Captain, M. C.*]

M. D., Georgetown University, 1908; *Assistant Dispensary Neurologist.*

804 Cathedral St.

§ALAN CALLENDER SUTTON, M. D., *Assistant in Medicine.* [*Lieut., M. C.*]

A. B., Johns Hopkins University, 1912, and M. D., 1916; Assistant Resident Physician, 1917-18.

2821 N. Calvert St.

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† On leave for government service.

§ On leave for hospital service in France.

DAVID EMRICH WEGLEIN, PH. D., *Instructor in Education.*

A. B., Johns Hopkins University, 1897, and Ph. D., 1917; A. M., Columbia University, 1912; Principal, Western High School, Baltimore.

2400 Linden Av.

GEORGE ARGALE HARROP, JR., M. D., *Instructor in Medicine.*

A. B., Harvard University, 1912; M. D., Johns Hopkins University, 1916; *Assistant Resident Physician.*

The Johns Hopkins Hospital.

NATHANIEL HAWLEY BRUSH, M. D., *Instructor in Psychiatry.*

[*Captain, M. C.*] Towson.

A. B., Johns Hopkins University, 1909, and M. D., 1914.

ADRIAN S. TAYLOR, M. D., *Instructor in Surgery.*

M. D., University of Virginia, 1905, and Harvard University, 1916; *Assistant Resident Surgeon.*

The Johns Hopkins Hospital.

PERCY DAVOL MEADER, PH. D., *Instructor in Bacteriology, School of Hygiene and Public Health.*

Ph. B., Brown University, 1914, Sc. M., 1916, and Ph. D., 1918; Assistant Bacteriologist, Providence Health Department, 1916-18.

813 N. Howard St.

LEWIS PADGETT, *Assistant in Biometry and Vital Statistics, School of Hygiene and Public Health.*

Graduate, Columbia School of Drafting, 1912; Topographical Draftsman, U. S. Forest Service, 1913-1915; Assistant Chief Draftsman, U. S. Bureau of Mines, 1915-1917; Chief Draftsman, United States Food Administration, 1917-1918.

312 W. Monument St.

SYLVIA LOUISE PARKER, A. B., *Instructor in Biometry and Vital Statistics, School of Hygiene and Public Health.*

A. B., Mount Holyoke College, 1916, and Laboratory Assistant in Zoology, 1916-1917; Assistant Biologist, Maine Agricultural Experiment Station, 1917-1918.

157 W. Lanvale St.

FLORENCE POWDERMAKER, B. S., *Instructor in Bio-Chemistry, School of Hygiene and Public Health.*

S. B., Pennsylvania State College, 1915; Chemist, Baltimore City Health Department, 1915-1917; U. S. Department of Agriculture, 1917-1918; United States Food Administration, 1918.

810 Whitelock St.

†HERMAN J. BOLLINGER, M. D., *Assistant in Bacteriology.*

S. B., Heidelberg University (O.), 1914; M. D., Johns Hopkins University, 1918.

614 N. Broadway

HALLIE MARGUERITE CLARKE, M. D., *Assistant in Medicine.*

S. B., Syracuse University, 1912; M. D., Johns Hopkins University, 1917; *Assistant Resident Physician.*

The Johns Hopkins Hospital.

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† On leave for medical service.

WILLIAM PARKER FINNEY, M. D., *Instructor in Pathology.* [*Lieut. M. C.*]

A. B., Princeton University, 1908; M. D., Johns Hopkins University, 1916; Rockefeller Fellow in Pathology, 1916-18.

2034 N. Calvert St.

FREDERICK EUGENE BASIL FOLEY, M. D., *Assistant in Pathology.*

Ph. B., Yale University, 1913; M. D., Johns Hopkins University, 1918.

1306 Eutaw Place.

SARAH ERNESTINE HOWARD, M. D., *Assistant in Medicine.*

A. B., Wellesley College, 1911; M. D., Johns Hopkins University, 1917; *Assistant Resident Physician.*

The Johns Hopkins Hospital.

†KARL HENRY MARTZLOFF, M. D., *Assistant in Pathology.*

A. B., University of Oregon, 1913; M. D., Johns Hopkins University, 1917.

WILLIAM CLIFFORD MCKEE, M. D., *Assistant in Obstetrics.*

S. B., Pomona College, 1908; M. D., Johns Hopkins University, 1913; *Assistant Resident Obstetrician.*

The Johns Hopkins Hospital.

*ANNABELLA ELLIOTT RICHARDS, PH. D., *Instructor in Physiological Chemistry.*

A. B., Bryn Mawr College, 1907; Ph. D., Johns Hopkins University, 1914; Instructor in Bryn Mawr College, 1917-18.

1514 Bolton St.

FRANCIS ERRET ROBERTS, M. D., *Assistant in Gynecology.*

A. B., Bethany College, 1912; M. D., Johns Hopkins University, 1916; *Assistant Resident Gynecologist.*

The Johns Hopkins Hospital.

ETHEL BENEDICT, A. B., *Assistant in Medicine.*

A. B., Wellesley College, 1916.

4142 Pimlico Rd.

DE WITT BELLINGER CASLER, M. D., *Instructor in Clinical Gynecology.*

A. B., Yale University, 1900; M. D., Johns Hopkins University, 1904; *Assistant Dispensary Gynecologist.*

9 W. Chase St.

JACOB COHEN, M. D., *Assistant in Clinical Medicine.*

A. B., Johns Hopkins University, 1908, and M. D., 1912; Interne, City Hospital, 1912-1914; *Assistant Dispensary Physician, J. H. U.*

Reisterstown

PAUL EATON, M. D., *Instructor in Bacteriology, School of Hygiene and Public Health.*

A. B., Allegheny College, 1899; M. D., University of Pittsburgh, 1903.

2100 Callow Av.

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† On leave for medical service.

* Died February 8, 1919.

ELLIOTT H. HUTCHINS, M. D., *Assistant in Clinical Surgery.*
A. B., St. John's College, 1902, and A. M., 1906; M. D., Johns Hopkins University, 1906; *Assistant Dispensary Surgeon.*
2217 St. Paul St.

HARRY M. ROBINSON, M. D., *Assistant in Clinical Dermatology.*
M. D., University of Maryland, 1909; *Assistant Dispensary Dermatologist, J. H. H.*
2010 Wilkens Ave.

ERNEST LUDWIG ZIMMERMAN, M. D., *Assistant in Clinical Medicine.*
A. B., Dartmouth College, 1912; M. D., Johns Hopkins University, 1916; *Assistant Dispensary Physician.*
1119 N. Caroline St.

CARLOS PINHEIRO CHAGAS, M. D., *Assistant in Pathology.*
M. D., Rio de Janeiro Medical School, 1913.

HELENE CONNET, A. B., *Assistant in Physiology.*
A. B., Goucher College, 1915, and Fellow, 1915-16.
727 Reservoir St.

CLARENCE E. COOLIDGE, PH. B., *Instructor in Mechanical Engineering.*
Ph. B., Yale University, 1895; Adjunct Professor, Georgia School of Technology, 1898-1900; Assistant Professor, Cornell University, 1900-1905; Instructor, Colorado School of Mines, 1912-13; Professor of Mechanical Engineering, University of Idaho, 1914-15.
2134 Oak St.

ERNEST HOWARD GAITHER, M. D., *Assistant in Clinical Medicine.*
M. D., Baltimore Medical College, 1905; *Assistant Dispensary Physician.*
405 Bretton Pl.

HENRY HUNTON HAMPTON, M. D., *Instructor in Gynecology.*
S. B., University of Tennessee, 1903; M. D., Johns Hopkins University, 1914; *Resident Gynecologist.*
The Johns Hopkins Hospital

EMILE FREDERIC HOLMAN, M. D., *Assistant in Surgery.*
A. B., Stanford University, 1911, and University of Oxford, 1916; M. D., Johns Hopkins University, 1918.
518 N. Broadway.

WILLIAM BRANT HUGHES, A. M., *Instructor in Physics.*
A. B., Ohio Northern University, 1909; A. M., Johns Hopkins University, 1915; Professor of Physics, Asbury College, Ky.
1556 Carswell St.

MARTHA KOEHNE, M. A., *Instructor in Bio-Chemistry, School of Hygiene and Public Health.*
A. B., Ohio State University, 1908, and A. M., 1910; Chemist, State Department of Health, Columbus, Ohio, 1911-1918.
2907 Presstman St.

FREDERICK HAMILTON LINTHICUM, M. D., *Assistant in Laryngology.*

A. B., Loyola College, 1912; M. D., Johns Hopkins University, 1917; *Associate Resident Surgeon.*

The Johns Hopkins Hospital.

MARK HOPKINS TIBBETTS, M. D., *Assistant in Orthopedic Surgery.*

S. B., Parsons College, 1912; M. D., Johns Hopkins University, 1917; *Resident Orthopedic Surgeon.*

The Johns Hopkins Hospital.

WILLIAM LAWRENCE WANLASS, A. M., *Instructor in Political Economy.*

A. B., George Washington University, 1915, and A. M., 1916; Fellow, Johns Hopkins University, 1918 (resigned).

2620 Maryland Av.

FRANCIS LEE DUNHAM, M. D., *Instructor in Clinical Psychiatry.*

A. B., University of Vermont, 1894, and M. D., 1897; A. M., Clark University, 1915.

HELEN TREDWAY GRAHAM, PH. D., *Assistant in Pharmacology.*

A. B., Bryn Mawr College, 1911, and M. A., 1912; Ph. D., University of Chicago, 1915.

2040 Brookfield Av.

RUTH STOCKING LYNCH, PH. D., *Instructor in Protozoölogy, School of Hygiene and Public Health.*

A. B., Goucher College, 1910; Fellow, Bryn Mawr College, 1911-12; Fellow, Johns Hopkins University, 1912-13, and Ph. D., 1915; Alice Freeman Palmer Fellow of Wellesley College, 1913-14; Professor of Biology, Agnes Scott College, 1915-16; Acting Professor of Biology, Wells College, 1916-17; Assistant Professor of Biology, Carnegie Institute of Technology, 1917-18.

211 Goodwood Gardens, Roland Pk.

AMY GEORGINA PHILLIPS, *Assistant in Biometry and Vital Statistics, School of Hygiene and Public Health.*

1435 Mt. Royal Av.

IDA WILLIAMS PRITCHETT, A. B., *Assistant in Immunology, School of Hygiene and Public Health.*

A. B., Bryn Mawr College, 1914; Technical Assistant, Rockefeller Institute for Medical Research, 1915-17, and Fellow in Pathology and Bacteriology, 1917-18.

1109 St. Paul St.

WINFORD OLIVER WILDER, M. D., *Assistant in Urology.*

Wesleyan University, 1900; M. D., University of Pennsylvania, 1904.

The Johns Hopkins Hospital.

WILLIAM WILLIS ANDERSON, M. D., *Assistant in Pathology.*

A. B., University of Georgia, 1911; M. D., Johns Hopkins University, 1916.

City Hospital, Bay View.

JANET HOWELL CLARK, PH. D., *Instructor in Physiology, School of Hygiene and Public Health.*

A. B., Bryn Mawr College, 1910; A. M., Johns Hopkins University, 1912, and Ph. D., 1913; Sarah Berliner Fellow, 1915-16; Instructor in Physics, Bryn Mawr College and Smith College, 1915-17.

232 W. Lanvale St.

OLIVE CUSHING SMITH, *Assistant in Bacteriology.*

Goucher College.

4 E. Biddle St.

FREDERICK CONRAD BLANCK, PH. D., *Assistant in Chemistry.*

A. B., Johns Hopkins University, 1903, and Ph. D., 1907; State Food and Drug Commissioner, Baltimore.

Boulevard Apts.

GUY LEE BRYAN, JR., B. S. IN ENG., *Instructor in Surveying and Descriptive Geometry.*

B. S. in Eng., Johns Hopkins University, 1917. *University Apts.*

JOHN BROADUS MITCHELL, PH. D., *Instructor in Political Economy.*

A. B., University of South Carolina, 1913; Fellow, Johns Hopkins University, 1916-17, and Ph. D., 1918.

Johns Hopkins Club.

WILBURT CORNELL DAVISON, M. D., *Instructor in Pediatrics.*

A. B., Princeton University, 1913; B. A., University of Oxford, 1915, and B Sc., 1916; M. D., Johns Hopkins University, 1917.

VERNE RHEEM MASON, M. D., *Assistant in Medicine.*

S. B., University of California, 1911; M. D., Johns Hopkins University, 1915; Assistant Resident Physician, Johns Hopkins Hospital, 1916-17.

FRANCIS METCALF ROOT, PH. D., *Teaching Fellow in Medical Entomology, School of Hygiene and Public Health.* (*Captain, Infantry.*)

A. B., Oberlin College, 1911, and A. M., 1912; Fellow, Johns Hopkins University, 1914-15, Bruce Fellow, 1916-17, and Ph. D., 1917.

312 W. Monument St.

WILLIAM HAY TALIAFERRO, *Instructor in Protozoölogy, School of Hygiene and Public Health.*

S. B., University of Virginia, 1915; Johns Hopkins University (Adam T. Bruce Fellow, 1917-1918, Ph. D., 1918, Johnston Scholar, 1919); Lieutenant, Medical Research Division, Chemical Warfare Service, Yale University, 1918.

2932 St. Paul St.

WENDELL PHILLIPS WOODRING, PH. D., *Research Assistant in Geology.*

A. B., Albright College, 1910; Fellow, Johns Hopkins University, 1914-15, and Ph. D., 1916.

ADDITIONAL INSTRUCTORS

College Courses for Teachers

HANS FROELICHER, PH. D. — *German and Art*
Professor of German Language and Literature and of Art Criticism in Goucher College.

KATHERINE J. GALLAGHER, PH. D. — *History*
Assistant Professor of History in Goucher College.

ANNETTE B. HOPKINS, PH. D. — *French Literature*
Professor of English in Goucher College.

JOSEPH S. SHEFLOE, PH. D. — *French*
Professor of Romanic Languages in Goucher College.

ALFRED BREIT. — *Russian*

[Besides 17 members of the University staff]

Summer Courses, 1918

ANNA BROCHHAUSEN, A. B. — *Elementary Education*
Supervising Principal, Indianapolis Public Schools.

THERESA COHEN, PH. D. — *Mathematics*
Fellow in Mathematics, 1917-18.

HAROLD F. COTTERMAN, A. M. — *Vocational Education*
Professor of Agricultural Education and Dean of the Division of Vocational Education, Maryland State College of Agriculture.

DANIEL DA CRUZ, PH. D. — *Spanish*
Assistant Professor of Romance Languages, Miami University.

JESSIE M. EBAUGH, A. B. — *Secondary Education*
Instructor, Franklin High School, Reisterstown, Md.

HERMAN L. EBELING, PH. D. — *History and Latin*
Associate Professor of Greek and Instructor in Latin, Goucher College.

SARAH ELKIN, PH. B. — *Biology*
Assistant Instructor in Biology, Purdue University.

HOWARD E. ENDERS, PH. D. — *Biology*
Professor of Zoology and Head of General Biology, Purdue University.

GEORGE M. GAITHER — *Manual Training*
Supervisor of Manual Training, Baltimore Public Schools.

CLARE E. GRIFFIN, A. M. — *Economics*
Instructor in Transportation.

GEORGE R. HAVENS, PH. D. — *French*
Instructor in Romance Languages, Indiana University.

KATHARINE L. HEALY — *6th Grade, Vacation School*
Teacher, Baltimore City School.

WILLIAM S. HOFFMAN, A. B. — *Chemistry*

DORRIS S. HOUGH, A. B. — *Recreation*
National Field Captain, National Headquarters Girl Scouts.

ALVEY M. ISANOGLE, A. B. — *Secondary Education*
Instructor, Thurmont High School, Maryland.

BUFORD J. JOHNSON, PH. D. — *Education and Psychology*
Bureau of Educational Experiments, New York.

HELEN V. McHALE — *7th Grade, Vacation School*
Teacher, Baltimore City School.

ARTHUR C. MILLSPAUGH, PH. D. — *Politics*
Instructor in Political Science.

THEODORE H. POND — *Fine Arts*
Instructor, Maryland Institute of Art.

ROBERT L. RAMSAY, PH. D. — *English*
Associate Professor of English, University of Missouri.

GEORGE H. REAVIS, A. M. — *Educational Administration*
Assistant State Superintendent of Schools, Maryland.

HENRY A. ROBEN — *Fine Arts*
Instructor, Maryland Institute of Art.

BLANCHE E. SHAFFER, S. B. — *Home Economics*
Instructor in Marketing, and Assistant in Household Chemistry, Teachers College, Columbia University.

J. HIRAM SHAMBERGER — *8th Grade, Vacation School*
Principal, Baltimore City School.

EMMA O. SHARP — *4th Grade, Vacation School*
Teacher, Baltimore City School.

SARAH E. SIMONS, A. M. — *Secondary Education*
Head of Department of English, High Schools, The District of Columbia.

EUGENE R. SMITH, A. M. — *Secondary Education*
Headmaster of the Park School, Baltimore.

EDITH H. STEWART — *Fine Arts*
Instructor, Maryland Institute of Art.

WINIFRED STURDEVANT, A. B. — *French*
Fellow in Romance Languages, 1917-18.

J. EARLE UHLER, A. B. — *English*
Assistant in English.

LIDA E. WATKINS — *5th Grade, Vacation School*
Teacher, Baltimore City School.

EFFIE M. WILLIAMSON, S. B. — *Elementary Education*
Primary Supervisor, Dorchester County, Maryland.

[Besides 8 members of the University staff]

NIGHT COURSES IN BUSINESS ECONOMICS

J. WALLACE BRYAN, PH. D. — *Elementary Accounting*

E. LYELL GUNTS, A. B. — *Principles of Advertising*

EVERT C. PALMER. — *Principles of Salesmanship*

J. EARLE UHLER, A. B. — *English*

[Besides 4 members of the University staff]

NIGHT COURSES FOR TECHNICAL WORKERS

HENRY C. LOUIS, M. E. — *Electrical Engineering*

[Besides 7 members of the University staff]

FOR THE STUDENTS' ARMY TRAINING CORPS

JOHN HINKLEY, LL. B. — *Lecturer on Military Law*

HARVEY BASSLER, PH. D. — *Topography*

LAWRENCE H. BAKER, A. B., — *English and Greek*

T. MORRIS CUSHING, A. B. — *English*

A. D. GAFFNEY, A. B. — *English*

ALBERT L. HAMMOND, A. B. — *English*

PETER PECK, A. B. — *English*

WYLLYS REDE, A. B., D. D. — *English*

LECTURERS, 1918-19

BEFORE THE FOLLOWING DEPARTMENTS OF INSTRUCTION

Medicine

NATHAN WORTH BROWN, M. D., of the Johns Hopkins Hospital.
Medicine. [Captain, M. C.]

EDWARD PERKINS CARTER, M. D. of the School of Hygiene.
Medicine.

WILLIAM WEBBER FORD, M. D., of the School of Hygiene.
Hygiene.

EVANDER FRANCIS KELLEY, PHAR. D., of Baltimore.
Pharmacy.

DAVID ISRAEL MACHT, M. D., of Baltimore.
Pharmacology.

WILLIAM SNOW MILLER, M. D., of the University of Wisconsin.
Medicine.

CHARLES WARDELL STILES, PH. D., D. SC., LL. D., of the United States Public Health Service.
Medical Zoölogy.

OMER VAN DER STRICHT, M. D., formerly of the University of Ghent.
Anatomy.

Political Science

WILLIAM FRANKLIN WILLOUGHBY, A. B., of the Bureau of Government Research, Washington.

Romance Languages

H. CARRINGTON LANCASTER, PH. D., of Amherst College.
French Literature.

Terrestrial Magnetism

LOUIS A. BAUER, PH. D., D. SC., Director of the Department of Terrestrial Magnetism, Carnegie Institution.

JOHNSTON SCHOLAR

MAXIMILIAN J. RUDWIN, PH. D., *Henry E. Johnston Scholar.*

A. B., University of Wisconsin, 1908; A. M., University of Cincinnati, 1910; Fellow, Ohio State University, 1912-13, and Ph. D., 1913; Instructor in German, Purdue University, 1913-16, and University of Illinois, 1916-18; *German Literature.*

207 *E. 23d St.*

GRADUATE STUDENTS

A. Department of Philosophy

FELLOWS BY COURTESY

HARVEY BASSLER. Myerstown, Pa. 1531 *Linden Av.*

B. E., Albright College, 1903, and M. S., 1909; E. M., Lehigh University, 1908; Fellow, Johns Hopkins University, 1912-13, and Ph. D., 1913. *Geology.*

CHARLES WILLIAM REMSBERG CRUM. Baltimore. 42 *E. 26th St.*

A. B., Johns Hopkins University, 1883; M. D., University of Maryland, 1888; Professor of Mathematics, Ursinus College, 1892-95. *Mathematics.*

RAYMOND PHILIP DOUGHERTY. Baltimore. *Goucher College.*

A. B., Lebanon Valley College, 1897, and A. M., 1903; B. D., Bonebrake Theological Seminary, 1910; Ph. D., Yale University, 1918; Professor of Biblical Literature, Goucher College. *Semitic Languages.*

GEORGE STEWART DUNCAN. Washington, D. C. *Washington.*

A. B., Williams College, 1885; A. M., Princeton University, 1887; B. D., Princeton Theological Seminary, 1888, and Semitic Fellow, 1888-89; Ph. D., Dickinson College, 1894; Professor of Semitic Languages, American University, Washington. *Egyptology and Archaeology.*

ISRAEL ISAAC EFROS. Baltimore. 146 *N. Broadway.*

A. B., New York University, 1913; A. M., Columbia University, 1914, and Ph. D., 1915; Rayner Fellow, 1917-18. *Semitic Languages.*

ALEXANDER DAVID FRASER. Pictou, Nova Scotia. 1530 *Linden Av.*

A. B., Dalhousie University, 1910; Fellow, Johns Hopkins University, 1911-12. *Classical Archaeology, Greek, and Latin.*

WILLIAM FREDERICK GERICKE. Berkeley, Cal. 3007 *N. Calvert St.*

S. B., Iowa State College, 1912; M. S., University of California, 1915; Assistant Professor of Soil Chemistry, University of California. *Plant Physiology, Physical Chemistry, and Physiological Chemistry.*

EDITH MURIEL HAEN. Baltimore. 4140 *Roland Av.*

A. B., Goucher College, 1915, and Fellow, 1915-17; Fellow, Johns Hopkins University, 1917-18. *German Literature and Germanic Philology.*

HOYT STILSON HOPKINS. Oberlin, O. 2472 *Maryland Av.*

A. B., Oberlin College, 1914, and A. M., 1915; Bruce Fellow, Johns Hopkins University, 1917-18. *Zoölogy, Chemistry, and Psychology.*

HELEN MOORE JOHNSON. Osceola, Mo.

A. B., University of Missouri, 1907; Ph. D., University of Wisconsin, 1912; Fellow, Johns Hopkins University, 1917-18. *Sanskrit.*

JULIAN DUCKETT SEARS. Baltimore. 658 *W. Franklin St.*

A. B., Johns Hopkins University, 1913, and Fellow, 1915-16. *Geology, Mineralogy and Physical Chemistry.*

WINIFRED STURDEVANT. Baltimore. 818 *W. 40th St.*

A. B., Bryn Mawr College, 1911; Fellow, Johns Hopkins University, 1917-18. *French, Spanish, and Italian.*

UNIVERSITY FELLOWS

JOSHUA BERNHARDT. Rochester, N. Y. 3028 *S. Paul St.*
A. B., University of Rochester, 1916. *Political Economy.*

OREGON BENSON HELFRICH. Baltimore Co. *Catonsville.*
A. B., Johns Hopkins University, 1916. *Chemistry, Physical Chemistry, and Physics.*

HERBERT INSLEY. Nanuet, N. Y. 2735 *Maryland Av.*
S. B., Hamilton College, 1914. *Geology, Petrography, and Physical Chemistry.*

JOHN MCGAVACK, JR. Waterford, Va. *Central Y. M. C. A.*
A. B., Hampden-Sidney College, 1913. *Chemistry, Physical Chemistry, and Physics.*

ELIZABETH MERRITT. Baltimore. 3402 *W. North Av.*
A. B., Goucher College, 1911; A. M., Smith College, 1914. *History, Political Science, and Political Economy.*

ROBERT PARVIN STRICKLER. Elkins, W. Va. 2124 *N. Calvert St.*
A. B., West Virginia University, 1907; Rhodes Scholar, University of Oxford, 1907-10. *Greek, Latin, and Sanskrit.*

CLAIRE STRUBE. Baltimore. 3703 *Forest Park Av.*
A. B., Goucher College, 1916. *German Literature, Germanic Philology, and Sanskrit.*

ELLEN THAYER. Baltimore. 1020 *Cathedral St.*
A. B., Bryn Mawr College, 1907. *French.*

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ADAM T. BRUCE FELLOW

WILLIAM ERNEST SEIFRIZ. Washington, D. C. 6212 *York Rd.*
B. S., Johns Hopkins University, 1916. *Botany, Zoology, and Plant Physiology.*

WILLIAM S. RAYNER FELLOWS

WILLIAM FOXWELL ALBRIGHT. Beach, Va. 2526 *Maryland Av.*
A. B., Upper Iowa University, 1912; Fellow, Johns Hopkins University, 1913-14, Rayner Fellow, 1914-1917, Ph. D., 1916, Instructor, 1916-17, Johnston Scholar, 1917-18. *Semitic Languages.*

DU PONT FELLOWS

JAMES EDWIN SHARP. Prairie Grove, Ark.
B. S., University of Arkansas, 1917. *Chemistry, Physical Chemistry, and Mineralogy.*

THOMAS COBB WHITNER, JR. Atlanta, Ga. 1203 *Madison Av.*
B. S., Georgia School of Technology, 1916. *Chemistry, Physical Chemistry, and Mathematics.*

(2)

GEORGE PEABODY SCHOLAR

JOHN GREENE AUSTIN. Newton, Ala. 3028 *St. Paul St.*
A. B., Mississippi College, 1913. *Education.*

WILLIAM H. GRAFFLIN SCHOLAR

RAEMER REX RENSHAW. Ames, Iowa. 321 *Druid Hill Av.*
B. S., University of Oregon, 1902, and M. S., 1903; Ph. D., Columbia University, 1907. *Chemistry.*

OTHER GRADUATE STUDENTS IN PHILOSOPHY

WILLIAM PIPER ANGEL. Knoxville, Tenn. 2501 *Maryland Av.*
A. B., University of Tennessee, 1903, and A. M., 1906; Instructor, Johns Hopkins University, 1917-18. *Physics.*

FRANK ASTOR. Baltimore. 3668 *Falls Rd.*
A. B., University of Virginia, 1912. *Education.*

TRAVIS BADER. McGaheysville, Va. 1400 *Linden Av.*
A. B., Goucher College, 1918. *English.*

WILLIAM HERBERT BAHLKE. Baltimore. 6 *Talbot Rd.*
S. B., Richmond College, 1916. *Chemistry, Physical Chemistry, and Physics.*

LAWRENCE HENRY BAKER. Baltimore Co. *Relay.*
A. B., Johns Hopkins University, 1917. *Greek, Archaeology, and Latin.*

EDITH ADELAIDE BECK. Punxsutawney, Pa. 2823 *St. Paul St.*
A. B., Goucher College, 1904, and A. M., 1907. *Latin.*

KATHRYN LAURA BEHRENS. Baltimore. 2410 *Elsinor Av.*
A. B., Goucher College, 1917. *History.*

FREDERICK KELLER BELL. Baltimore. 821 *W. Lanvale St.*
A. B., Johns Hopkins University, 1916. *Chemistry, Physical Chemistry, and Mathematics.*

ANNE BOHNING. Fort Worth, Texas. 821 *N. Charles St.*
A. B., Smith College, 1915. *Chemistry and Physics.*

BEVERLEY THRUSTON BRANHAM. Baltimore. 2200 *Eutaw Pl.*
B. S., Washington College, 1917. *Chemistry.*

ARTHUR BENNETT BROWN. Charleston, S. C.
A. B., Charleston College, 1918. *Chemistry, Physics, Mineralogy.* [S.A.T.C.]

MARY WALLACE BUCK. Norfolk, Va. 2735 *Maryland Av.*
A. B., Randolph-Macon Woman's College, 1918. *French.*

HARRY SHARP CANNON. Nicholasville, Ky. 2642 *N. Charles St.*
A. B., University of Kentucky, 1909, and A. M., 1911. *German Literature, Germanic Philology, and Sanskrit.*

JOHN THOMAS CHAPPELL. Pilot Mountain, N. C. 1019 *Linden Av.*
B S., Guilford College, 1913. *Chemistry.*

JENNINGS PIN-KWEI CHU. Hangchow, China. 2627 *Maryland Av.*
A. B., Johns Hopkins University, 1918. *Education, History, and Biology.*

ESTHER INEZ COLDWELL. Oxford, Kans. 342 *Dolphin St.*
A. B., Southwestern College, 1915. *Zoology.*

MIRIAM CONNET. Baltimore. 727 *Reservoir St.*
A. B., Goucher College, 1918. *French and Spanish.*

JAMES BRIAN EBY. Baltimore. 2530 *N. Charles St.*
A. B., Johns Hopkins University, 1918. *Geology.*

JOHN GRAHAM EDWARDS. Rushmere, Va.
B. A. and M. A., University of Virginia, 1915. *Zoology, Botany, and Chemistry.*

MARGARET LORRAINE ENGLE. Ashland. 1901 *Kennedy Av.*
A. B., New Windsor College, 1911. *History, Political Science, and Spanish.*

WILLIAM SMITH ENGLISH, JR. Paulsboro, N. J. 1019 *Linden Av.*
B. S. in Chem. Eng., University of Pennsylvania. *Chemistry, Physical Chemistry, and Mineralogy.*

RAFAEL B. ESPINO. Los Baños, P. I. 3555 *Cedar Av.*
B. Agric., University of the Philippines, 1915. *Plant Physiology, Botany, and Zoology.*

WILLIAM JUNKIN FLAGG. Christiansburg, Va. 1615 *Eutaw Pl.*
A. B., Washington and Lee University, 1913. *English, French, and Italian.*

MABEL KATHERINE FREHAFER. Chestnut Hill, Pa. 3547 *Newland St.*
A. B., Bryn Mawr College, 1908; A. M., University of Wisconsin, 1909. *Physics.*

JESSE RAYMOND GORDON. Liverpool, W. Va.
B. S., Johns Hopkins University, 1918. *Political Science.*

ROBERT WILLIAM HALE, JR. Baltimore. *Central Y. M. C. A.*
A. B., Johns Hopkins University, 1916. *Chemistry, Physical Chemistry, and Geology.*

JACOB NATHANIEL HAUSER. Baltimore. 1012 *Bennett Place.*
A. B., Mission House College (Wis.), 1899. *Biology.*

SISTER M. XAVIER (HIGGINS). Mt.Washington. *Mt. St. Agnes College.*
A. B., Mt. St. Agnes College, 1913. *Education.*

WILLIAM SAMUEL HOFFMAN. Baltimore. 629 *S. Broadway.*
A. B., Johns Hopkins University, 1918. *Chemistry.* [S. A. T. C.]

ELMER RHODES HOKE. Baltimore. 1220 *W. 36th St.*
A. B., Franklin and Marshall College, 1913, and A. M., 1914; B. D., Lancaster Theological Seminary, 1917. *Education, Philosophy, and Political Economy.*

ROY EDWARD HOKE. Baltimore. 1220 *W. 36th St.*
A. B., Franklin and Marshall College, 1916, and A. M., 1917. *Education, Philosophy, and Political Economy.*

SHIGERU HOSHIJIMA. Okayama-Ken, Japan. 2202 *Roslyn Av.*
Waseda University (Shogakushi, 1915). *Political Economy.*

YASUSHI IBARA. Uwajima, Japan. 2823 *St. Paul St.*
A. B., Randolph-Macon College, 1917. *Zoology.*

LOUIS IBAÑEZ-VELASCO. Potosi, Bolivia. 2613 *Maryland Av.*
B. S., Oruro (Bolivia) Mining School, 1915. *Geology.*

TEIZO ISSHIKI. Tokyo, Japan. 2743 *N. Calvert St.*
University of Tokyo (Kogakushi, 1909). *Electrical Engineering.*

WILLIAM LEE JUDEFIND. Baltimore. 3425 *Piedmont Av.*
A. B., Western Maryland College, 1915. *Chemistry, Physical Chemistry, and Mineralogy.*

CORNELIA KENNEDY. Minneapolis, Minn. 1514 *Bolton St.*
A. B., University of Minnesota, 1913; M. S., University of Wisconsin, 1916; Sarah Berliner Fellow, 1918-19. *Bio-Chemistry, Physiological Chemistry, and Organic Chemistry.*

LUELLA EDITH KIEKHOFER. Freeport, Ill. 2733 *Maryland Av.*
Ph. B., Northwestern College, 1901, and Ph. M., 1904. *Romance Languages.*

SIMON KLOSKY. Emmitsburg, 2642 *N. Charles St.*
A. B., Mt. St. Mary's College, 1914. *Chemistry, Physical Chemistry, and Biology.*

RICHARD LEE KRAEMER. Frankfort, Ind. 122 *W. Franklin St.*
A. B., Wabash College, 1913. *Chemistry.*

JOSEPH LOUIS KRIEGER. Baltimore. 16 *Irvine Pl.*
B. S, Johns Hopkins University, 1918. *Chemistry, Physics, and Mathematics.*

CHARLES EDWARD LANNING. Richmond, Ind. 1012 *Madison Av.*
A. B., Earlham College, 1916. *Chemistry, Physical Chemistry, and Physics.*

LEWIS MONCURE LATANÉ. Richmond, Va. *Central Y. M. C. A.*
A. B. Richmond College, 1917. *Political Science, History, and Political Economy.*

WILLIAM LLOYD LINTON. Wellsburg, W. Va. 1019 *Linden Av.*
B. S., West Virginia University, 1915. *Chemistry, Physical Chemistry, and Physics.*

PAUL LANGE LOTZ. Baltimore. 2105 *Mt. Holly St.*
B S., Pennsylvania College, 1915. *Chemistry, Physical Chemistry, and Mineralogy.*

MARGARET ELIOT MACGREGOR. Washington, D.C. 2504 *N. Charles St.*
A. B., Goucher College, 1917. *English.*

MORRIS ABEL MECHANIC. Baltimore. 1912 *E. Baltimore St.*
A. B., Johns Hopkins University, 1918. *Political Economy.*

MARY MENDENHALL. Winchester, Ind. 1203 *Madison Av.*
S. B., Earlham College, 1918. *Chemistry and Physical Chemistry.*

CHARLES HERMAN MIEGEL. Baltimore. 2401 *Frederick Av.*
A. B., Johns Hopkins University, 1918. *Political Science, Political Economy, and History.*

META HELENA MILLER. Baltimore. 4210 *Vermont Av.*
A. B., Goucher College, 1917, and Fellow, 1917-18. *Romance Languages.*

IRMA ELEANOR MOHR. Baltimore. 2135 *W. Baltimore St.*
A. B., Goucher College, 1918, and Fellow, 1918-19. *English and Spanish.*

CARLOS FEDERICO MORA. Guatemala City, C. A. *Hotel Emerson.*
B. S., National Institute of Guatemala, 1909; M. D., Guatemala School of Medicine, 1916. *Psychology, Psychiatry, and Pathological Psychology.*

EDGAR A. MORGAN. Jewett, Ill. 2827 *Walbrook Av.*
A. B., University of Illinois, 1906. *Education, History, and Political Science.*

KOICHI MORITA. Tokyo, Japan. 3600 *Windsor Mill Rd.*
Imperial University of Tokyo (Rigakushi, 1917). *Plant Physiology, Botany, and Zoölogy.*

FRANK VIGOR MORLEY. Baltimore. 2026 *Park Av.*
A. B, Johns Hopkins University, 1918. *Mathematics and Geology.*

TOMIO NAKANO. Sapporo, Japan.
Waseda University (Seigakushi, 1916). *Political Science, History, and Political Economy.*

BENJAMIN SIMON NEUHAUSEN. Baltimore. 722 *N. Wolfe St.*
A. B., Johns Hopkins University, 1918. *Chemistry, Physical Chemistry, and Physiological Chemistry.*

RUTH NORTON. Columbus, O. 3026 *St. Paul St.*
A. B., Lake Erie College, 1914; A. M., University of Wisconsin, 1918. *Germanic Philology, German Literature, and Spanish.*

BESSIE NOYES. Lincoln, Neb. 210 *E. 31st St.*
A. B., University of Nebraska, 1911, and A. M., 1914. *Zoology, Botany, and Plant Physiology.*

CHARLES SNOWDEN PIGGOT. Pikesville. 1203 *Madison Av.*
A. B., University of the South, 1914. *Chemistry, Physical Chemistry, and Mineralogy.*

LLOYD HILTON REYERSON. Dawson, Minn. 2508 *Keyworth Av.*
A. B., Carleton College, 1915; A. M., University of Illinois, 1917. *Chemistry, Physical Chemistry, and Physics.*

CURT PAUL RICHTER. Denver, Colo. 1613 *E. Biddle St.*
Royal Polytechnicum, Dresden, 1913-15; B. S., Harvard University, 1917. *Psychology, Psychiatry, and Physiology.*

RAPHAEL ROSEN. Baltimore. 2026 *Madison Av.*
A. B., Johns Hopkins University, 1916. *Chemistry, Physical Chemistry, and Geology.*

JOSEPH EDWARD SNYDER. Howard Co. *Ellicott City.*
A. B., Johns Hopkins University, 1913. *Hebrew, Assyriology, and History of the Ancient East.*

EDMUND MAUTE SPIEKER. Baltimore. 915 *Edmondson Av.*
A. B., Johns Hopkins University, 1916. *Geology, Paleontology, and Chemistry.*

MARGUERITE LOUISE SPIEKER. Baltimore. 915 *Edmondson Av.*
A. B., Goucher College, 1918, and Fellow, 1918-19. *English, French, and German.*

FLORA DOBLER SUTTON. Baltimore. 1735 *Bolton St.*
A. B., Goucher College, 1912. *Mathematics and Education.*

CATHERINE BOWIE CLAGETT THOMAS (Mrs.). Baltimore.
S. B., Johns Hopkins University 1918. *English.* 2424 *N. Calvert St.*

JOHN EARLE UHLER. Baltimore. 2403 *Allendale Rd.*
A. B., Johns Hopkins University, 1913. *Education.*

JOHN PAUL VISSCHER. Holland, Mich. 2517 *Maryland Av.*
A. B., Hope College, 1917. *Zoölogy and Botany.*

MADELEINE PHILBRICK WEEKS. Plymouth, N. H. 3131 *N. Calvert St.*
A. B., Smith College, 1915. *History and Political Science.*

REBEKAH JANE WHALEN. Howard County. *Ellicott City.*
A. B., Goucher College, 1917. *Latin.*

ANNA MARIE WHELAN. Baltimore. 1412 *W. Mulberry St.*
A. B., Goucher College, 1918. *Mathematics.*

SUEKICHI YOSHIDA. Tokyo, Japan. 2624 *N. Calvert St.*
Waseda University (Shogakushi, 1916.) *Political Economy.*

PAULINE ZINNINGER. Canton, O. 2723 *St. Paul St.*
A. B., Oberlin College, 1917. *Chemistry, Physics, and Biology.*

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ATTENDANTS ON SINGLE COURSES

VIRGINIA ALCOCK. Baltimore. 2742 *St. Paul St.*
A. B, Wellesley College, 1918. *Philosophy.*

VOLA PRICE BARTON. Baltimore. *Mt. Washington Hgts.*
A. B., Goucher College, 1915; A. M., Mt. Holyoke College, 1917. *Physics.*

MARGARET CATHERINE BEALL. Beltsville. 511 *S. Clinton Av.*
Political Economy.

ALICE HELM BOSLEY (Mrs.). Baltimore Co. *Riderwood.*
French Literature.

MAYNARD ARTHUR CLEMENS. Baltimore. 2044 *Kennedy Av.*
B. S., Teachers College, Columbia University, 1913. *Education.*

ESTHER JOSEPHINE CROOKS. Ravenswood, W. Va. *Lutherville.*
Ph. B., Denison University, 1909. *Spanish.*

VICTOR DULAC. Washington, D. C. *University Apts.*
A. B., George Washington University, 1915; A. M., Johns Hopkins University, 1918. *Spanish and French Literature.*

WILLIAM LEOPOLD FICHTER. Annapolis. ***Annapolis.***
B. S., Columbia University, 1914, and A. M., 1918. *Romance Languages.*

MARGARET IRENE FRIZ. Baltimore. ***Lombardy Apts.***
A. B., Goucher College, 1916. *French Literature.*

FRANCIS MITCHELL FROELICHER. Hamilton. 303 ***Tramore Rd.***
A. B., Haverford College, 1913. *Education.*

CHARLES FREDERICK GLOTH. Baltimore. 410 ***St. Paul St.***
A. B., Yale University, 1897. *Biology.*

EUNICE RATHBONE GODDARD. Baltimore. 13 *E. Read St.*
A. B., Mt. Holyoke College, 1903; A. M., Columbia University, 1906. *Biology.*

JACOB GRAPE. Baltimore. 333 *E* 22*nd St.*
B. S., Johns Hopkins University, 1918. *Education.*

MARY ELLA HARRISON. Baltimore. 1400 ***Eutaw Pl.***
Ph. B., University of Chicago, 1910. *Classical Archaeology.*

MARY ELOISE HOYT. Baltimore. 609 *Lennox St.*
A. B., Bryn Mawr College, 1893; A. M., Columbia University, 1918. *History.*

MILDRED HUTCHINSON. Lynnfield Centre, Mass. 1217 *St. Paul St.*
A. B., Smith College, 1915. *French and Spanish.*

SISTER M. PIUS (HYLAND). Mt. Washington. ***Mt. St. Agnes College.***
A. B., Mt. St. Agnes College, 1906. *History.*

ALVEY MICHAEL ISANOGLE. Frederick Co. *Thurmont.*
A. B., St. John's College, 1898. *Education and History.*

CAROLINE ELIZABETH JESSE. Columbia, Mo. 1 *E.* 21*st St.*
A. B., University of Missouri, 1907, B. S. in Education, 1908, and A. M., 1909. *French Literature.*

EIJIRO KAWAI. Tokyo, Japan.
Imperial University of Tokyo (Doctor of Law, 1915). *Political Economy.*

LOUISE EMERSON LAMB. Baltimore. 232 *Laurens St.*
A. B., Bryn Mawr College, 1912. *Spanish.*

LOUISE LEONARD. Coudersport, Pa. 807 *Cathedral St.*
A. B., Vassar College, 1907. *Political Economy.*

MARGARET LUCILE LIPPITT. Meadville, Pa. 1224 *Light St.*
A. B., Allegheny College, 1915. *Political Economy.*

HELEN EASTMAN MANNING. Elmira, N. Y. 1 *E.* 21*st St.*
A. B., Elmira College, 1912; A. M., Columbia University, 1916. *French Literature.*

STELLA A. MCCARTHY. Baltimore. 3620 *Fairview Av.*
A. B., Goucher College, 1892; A. M., Columbia University, 1915. *Education.*

ELIZABETH KNOWLES MORRISON. Swarthmore, Pa. 1224 *Light St.*
A. B., Swarthmore College, 1917. *Political Economy.*

LOUIS JEROME PESSIN. New York, N. Y. 2503 *Maryland Av.*
S. B., University of Georgia, 1916. *Botany.*

FLORENCE SCHUBERT. Baltimore. 1256 *N. Broadway.*
A. B., Notre Dame College (Md.), 1916. *Physics and Biology.*

DOROTHY TYSON SHIPLEY (Mrs.). Baltimore. *Hampton Court.*
Collège de France. *French Literature.*

OLIVE CARROLL SLATER. Baltimore. 305 *Robert St.*
Psychology.

MINNIE CECILIA SMITH. Baltimore. 402 *N. Carrollton Av.*
Botany.

SAMUEL WALTER SPARKS. Baltimore. 4505 *Maine Av.*
A. B., Washington College, 1909. *Education.*

GEORGE ALEXANDER STEELE. Baltimore. 1324 *Eutaw Pl.*
A. B., St. John's College, 1884, and A. M., 1887. *Latin Syntax.*

SISTER M. PLACIDE (THOMAS). Mt. Washington. *Mt. St. Agnes.*
A. B., Mt. St. Agnes College, 1903. *Mathematics.*

(34).

B. MEDICAL DEPARTMENT

CANDIDATES FOR THE DEGREE OF DOCTOR OF MEDICINE

Fourth Year

ENOCH HERMON ADAMS. Belgrade, Me. 806 *N. Broadway.*
A. B., Bates College, 1913.

JANE B. ARMSTRONG. Rome, N. Y. 1725 *E. Fairmount Av.*
A. B., Smith College, 1910; Graduate student, Syracuse University, 1914-15.

ALVIN GLENWOOD ATHENS. Summitsville, Ind. 606 *N. Broadway.*
A. B., De Pauw University, 1915.

EDGAR DRANE BASKETT. Columbia, Mo. 1626 *E. Biddle St.*
A. B. and A. M., University of Missouri, 1915 and 1916; Medical Student, *ibid.*, 1913-15.

MARY KENDRICK BENEDICT. Cincinnati, O. 102 *Jackson Pl.*
A. B., Vassar College, 1897; Ph. D., Yale University, 1903.

FRANKLIN BLEVINS BOGART. N. Chattanooga, Tenn. 1529 *N. Bdway.*
S. B. and M. S., University of Wisconsin, 1916-17; Medical Student, *ibid.*, 1914-17.

HAROLD MATHEW BOWCOCK. Springfield, Ill. 1727 *N. Bdway.*
S. B. and M. S., University of Michigan, 1916-17; Medical Student, *ibid.*, 1914-16.

DUDLEY PLEASANTS BOWE. Richmond, Va. 1727 *N. Broadway.*
A. B., Richmond College, 1915.

PAUL J. BOWMAN. Middletown, Pa. 1322 *N. Caroline St.*
A. B., Lebanon Valley College, 1915.

MOSES LEWIS BREITSTEIN. Richmond, Va. 1302 *N. Broadway*
A. B., Richmond College, 1915; Summer School, University of Michigan, 1914.

EDWIN NASH BROYLES. Atlanta, Ga. 510 *N. Broadway.*
S. B., University of Georgia, 1915.

JOHN AMBROSE CLARK BUSBY. Delta, Ia. 1626 *E. Biddle St.*
S. B., Grinnell College, 1915.

EUGENE MORRISON CARR. Albuquerque, N. M. 518 *N. Broadway.*
A. B., University of Pennsylvania, 1913; Graduate student, Johns Hopkins University, 1914-1915.

JAMES ROBERT CASH. Chattanooga, Tenn. 1614 *E. Biddle St.*
A. B., University of Virginia, 1914, and A. M., 1915.

HORTON RYAN CASPARIS. Austin, Tex. 518 *N. Broadway.*
A. B., University of Texas, 1915.

LELAND STANFORD CHAPMAN. Los Angeles, Cal. 810 *N. Bdway.*
S. B., Occidental College, 1915.

JOHN GARDNER CHEETHAM. Canton, N. Y. 606 *N. Broadway.*
A. B., St. Lawrence University, 1913; Medical Student, Johns Hopkins University, 1913-15.

LAURENCE BENJAMIN CHENOWETH. Baltimore. 725 *N. Carey St.*
A. B., Johns Hopkins University, 1914.

BENJAMIN MILTON CISSEL. Highland. 1626 *E. Biddle St.*
A. B., St. Johns College, 1914.

L. CLARENCE COHN. Baltimore. *Cloverdale Apts.*
A. B., Johns Hopkins University, 1915.

WINCHELL MCKENDREE CRAIG. Washington C. H., O. 1538 *N. Bdway.*
A. B., Ohio Wesleyan University, 1915.

CATHERINE CREIGHTON. Evanston, Ill. 202 *W. Monument St.*
A. B., Bryn Mawr College, 1914; Graduate student, George Washington University, 1914-1915.

LEONARD TOMB DAVIDSON. Oberlin, O. 606 *N. Broadway.*
A. B., Oberlin College, 1912; Medical Student, Johns Hopkins University, 1914-16.

JAMES EDWARD DAVIS. Groseclose, Va. 520 *N. Bdway.*
A. B., Roanoke College, 1915.

EDWARD CARSON DEMMOND. Savannah, Ga. 814 *N. Broadway.*
A. B., Emory College, 1915.

HELEN GEORGE DENNIS. Portland, Ore. 306 *N. Broadway.*
A. B., University of Oregon, 1913.

EDGAR EVERETT DUNCAN. Waldron, Ark. *Woman's Hospital.*
A. B., University of Arkansas, 1915.

RALPH HARPEL DUNLAP. Baltimore. 3300 *Beech Av.*
A. B., Albright College, 1914.

JAMES RALPH DUNN. Camden, S. C. 1612 *E. Biddle St.*
S. B., Davidson College, 1915.

FRANKLIN GESSFORD EBAUGH. Reisterstown. 700 *W. North Av.*
A. B., Johns Hopkins University, 1915.

HORTENSIA AMANDA FARRALL. Batavia, N.Y. 813 *N. Broadway.*
S. B., Simmons College, 1912.

JOHN MILLER TRAIN FINNEY, JR. Baltimore. 1300 *Eutaw Pl.*
S. B., Princeton University, 1915.

THOMAS SAMUEL FINNEY. Attica, Ind. 606 *N. Broadway.*
A. B., Wabash College, 1915.

EARL NEWTON FLOWERS. Clarksburg, W.Va. 520 *N. Bdway.*
A. B., West Virginia Wesleyan College, 1915; Summer Courses, Johns Hopkins University, 1915.

WATSON WOMACK GRAY. Farmville, Va. 923 *N. Broadway*
A. B., Randolph-Macon College, 1915.

JACOB PEARL GREENBERG. New York, N. Y. 1642 *Moreland Av.*
S. B., College of the City of New York, 1915; Summer Session, Columbia University, 1914.

ROBERT ROGER HANNON. Seattle, Wash. 606 *N. Broadway.*
S. B., University of Washington, 1915.

EDWARD M. HANRAHAN, JR. Binghamton, N. Y. 510 *N. Bdway.*
A. B., Cornell University, 1915.

JOHN WILLIAM HARRISON. Morganton, N. C. 810 *N. Bdway.*
A. B. and A. M., Trinity College (N. C.), 1912 and 1915; Medical Student, University of North Carolina, 1915-17.

GEORGE GIVINS HARVEY. Armstrong, Mo. 1529 *N. Bdway.*
A. B., University of Missouri, 1916 and A. M., 1917; Medical Student, *ibid.*, 1914-16.

RALPH DAVID HERLINGER. Warren, O. 1231 *N. Caroline St.*
S. B., Hobart College, 1915.

HAROLD LEONARD HIGGINS. Boston, Mass. 520 *N. Bdway.*
A. B., Harvard University, 1907.

CHAMPNEYS HOLT HOLMES. Macon, Ga. 814 *N. Broadway.*
S. B., University of Georgia, 1915.

PAUL ROSCOE HOLTZ. Frederick. 1529 *N. Broadway.*
A. B., Western Maryland College, 1915.

LOIS HUBBARD. Cambridge, Mass. 1727 *E. Fairmount Av.*
A. B., Vassar College, 1915.

CYRIL CHRISTOPHER HUSSEY. Sidney, O. 1538 *N. Broadway.*
S. B., Ohio University, 1915.

WASHINGTON CONNER HUYLER. Tenafly, N. J. 521 *N. Wolfe St.*
S. B., Columbia University, 1915.

ROBERT ALEXANDER JOHNSTON. Tuskegee, Ala. 606 *N. Bdway.*
S. B., University of Alabama, 1915.

HUGH WILSON JOSEPHS. Newport, R. I. 908 *St. Paul St.*
A. B., Harvard University, 1914; Graduate Student, *ibid.*, 1914-1915.

H. DABNEY KERR. Catonsville. 518 *N. Broadway.*
S. B., University of Wisconsin, 1916; Medical Student, *ibid.*, 1914-1916.

HOWARD ATHOS KINNAMAN. Bowling Green, Ky.
S. B., Earlham College, 1915. 4014 *Forest Park Av.*

WILLIAM MINSTER KUNKEL. Harrisburg, Pa. 1727 *N. Bdway.*
A. B., Franklin and Marshall College, 1915.

LUCILLE LIBERLES. Baltimore. 2347 *Eutaw Pl.*
A. B., Goucher College, 1915.

FERDINAND CHRISTIAN LEE. Baltimore. 3033 *Guilford Av.*
A. B., Cornell University, 1915.

BIRKHEAD MACGOWAN. Knoxville, Tenn. 27 *N. Carey St.*
S. B., University of Tennessee, 1915.

MADGE THURLOW MACKLIN (Mrs.). Philadelphia, Pa.
A. B., Goucher College, 1914.

HILMAR GEORGE MARTIN. Milwaukee, Wis. 527 *N. Wolfe St.*
A. B. and A. M., University of Wisconsin, 1915-16; Medical Student, *ibid.*, 1914-16.

WILLIAM ALEXANDER MCINTOSH. Oberlin, O. 1027 *N. Caroline St.*
A. B., Oberlin College, 1913, and A. M., 1915.

JAY MCLEAN. San Francisco, Cal. 1114 *N. Calvert St.*
S. B., University of California, 1914, and A. M., University of Pennsylvania, 1917; Robert M. Girvin Research Fellow, University of Pennsylvania, 1916-17; Le Conte Memorial Fellow, University of California, 1917-19.

LAURA MARY MOENCH. Gowanda, N. Y. 101 *Jackson Pl.*
A. B., Wellesley College, 1914; Medical Student, Cornell University, 1915-16.

JOHN MERRELL MONFORT. Cartersville, Ga. 1022 *N. Bdway.*
A. B., Emory University, 1915.

DORIS AUDREY MURRAY. St. John, New Bruns. 1720 *E. Madison St.*
A. B., McGill University, 1915.

LUTHER KYNER MUSSELMAN. Gettysburg, Pa. 806 *N. Broadway.*
S. B., Pennsylvania College, 1915.

JOSEPH GRANT O'BRIEN, JR. Butte, Mont. 2119 *Homewood Av.*
A. B., St. Francis Xavier's College, 1914.

ALEXANDER THOMAS ORMOND, JR. Princeton, N. J. *Gilman Co. Sch.*
A. B., Princeton University, 1912.

CHARLES EDWARDS PARSONS. Colorado Springs, Colo. 510 *N. Bdway.*
A. B., Amherst College, 1913, and Colorado College, 1914.

JOHN RODMAN PAUL. Philadelphia, Pa. 510 *N. Bdway.*
A. B., Princeton University, 1915.

DALTON GORDON PAXMAN. Hamilton, N. D. 1602 *E. Biddle St.*
A. B. and M. S., University of North Dakota, 1914 and 1915.

ANNA PLATT. Baltimore. 1109 *N. Charles St.*
A. B., Bryn Mawr College, 1909; Graduate Student, Johns Hopkins University, 1914-16.

JAMES VALENTINE PRICE, JR. Madison, N. C. 120 *Jackson Pl.*
A. B., University of North Carolina, 1915; Medical Student, *ibid.*, 1915-17.

ROBERT EMMET PURCELL. Shamokin, Pa. 1626 *E. Biddle St.*
A. B., University of Michigan, 1915.

ANNE PERIL PURDY. Waterboro, Quebec. 705 *N. Bdway.*
A. B., McGill University, 1915.

ELIZABETH MINTIE REESE. Gwynnbrook. 1709 *Fairmount Av.*
A. B., Goucher College, 1908.

ARNOLD RICE RICH. Birmingham, Ala. 510 *N. Bdway.*
A. B., University of Virginia, and A. M., 1915.

WILLIAM FRANCIS RIENHOFF, JR. Springfield, Mo. 510 *N. Broadway.*
A. B., Cornell University, 1915.

DUDLEY ANDERSON ROBNETT. Columbia, Mo. 3543 *Newland Av.*
A. B., University of Missouri, 1916, and A. M., 1917; Medical Student, *ibid.*, 1914-16.

GEORGE DAVIS ROWE. Fredericksburg, Va. 518 *N. Bdway.*
A. B., Fredericksburg College, 1910; S. B., Wake Forest College, 1916 (Medical Student, 1914-1916).

BENJAMIN SACKS. Baltimore. 1707 *E. Fairmount Av.*
A. B., Johns Hopkins University, 1915.

IRWIN CLEMENT SCHUMACHER. Yuba City, Cal. 518 *N. Bdway.*
A. B., University of California, 1915.

GEORGE SALVADORE STEVENSON. Baltimore. 1637 *Ashland Av.*
S. B., Bucknell University, 1915.

HAROLD JULIAN STEWART. Onancock, Va. 21 *W. Chase St.*
A. B., Johns Hopkins University, 1915; Medical Student, *ibid.*, 1915-16, and Columbia University, 1916-17.

BESSIE TALBOT STRONGMAN. Brookline, Mass. *The Walbert.*
S. B., University of Chicago, 1915.

EDYTH CLAIRE SWARTHOUT. Lacrosse, Wis. 33 *E. Mt. Vernon Pl.*
A. B. and A. M., University of Wisconsin, 1913-17; Medical Student, *ibid.*, 1912-13 and 1916-17

FRANK CARLETON THOMAS. Roanoke, Va. 234 *Laurens St.*
A. B., Randolph-Macon College, 1915.

CLAUD IRVING UHLER. Baltimore. 605 *N. Carrollton Av.*
A. B., Johns Hopkins University, 1915.

ALLEN FISKE VOSHELL. Baltimore. 510 *N. Broadway.*
A. B., Johns Hopkins University, 1915.

EMANUEL U. WALLERSTEIN. Richmond, Va. 1302 *N. Bdway.*
A. B., University of Virginia, 1914.

LESLIE TILLOTSON WEBSTER. Mt. Vernon, N. Y. *J. H. Hosp.*
A. B., Amherst College, 1915.

GEORGE HUNTINGTON WILLIAMS. Baltimore. 803 *Cathedral St.*
A. B., Harvard University, 1915.

JUDSON THOMAS WILLIAMS. Colo. Springs, Colo. 806 *N. Broadway.*
A. B., Colorado College, 1915.

HENRY STUART WILLIS. High Point, N. C. 2022 *Mt. Royal Ter.*
A. B., University of North Carolina, 1914.

HENRY MORGAN WINANS. Denver, Colo. 518 *N. Broadway.*
A. B., Leland Stanford, Jr., University, 1916; Medical Student, *ibid.*, 1915-1916.

H. GARNER WRIGHT. Seattle, Wash. 606 *N. Broadway.*
S. B., University of Washington, 1913; Medical Student, Johns Hopkins University, 1914-1915.

JOHN BARLOW YOUMANS. Mukwonago, Wis. 1529 *N. Bdway.*
A. B. and M. S., University of Wisconsin, 1915 and 1916; Medical Student, *ibid.*, 1914-1916.

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Third Year

WILMAR MASON ALLEN. Upper Marlboro. 518 *N. Bdway.*
A. B., Haverford College, 1916.

RIDGELY WATERS BAER. Baltimore. *Roland Park.*
A. B., Johns Hopkins University, 1916.

GARLAND HOWARD BAILEY. Giatto, W. Va. 1012 *N. Bdway.*
S. B., West Virginia University, 1915; Graduate Student, Harvard, 1915-16.

ELI JEFFERSON BROWDER. Harrison, Mont. 1338 *N. Eden St.*
A. B., Emory and Henry College, 1915.

PAUL E. BROWN. Sparta, Ga. 1022 *N. Broadway.*
S. B., Emory University, 1915.

FLORENCE A. BROWNE. Bay City, Mich. 1727 *E. Fairmount Av.*
A. B., Vassar College, 1908; Medical Student, University of Michigan, 1916-18.

JOHN GILLETT BURNS. Cuero, Tex. 1526 *E. Biddle St.*
A. B., Southwestern University, 1916.

WILLIAM COURETTE CALDWELL. Athens, La. 606 *N. Broadway.*
A. B., Louisiana State University, 1911, and M. S., 1912.

GEORGE LUNSFORD CARRINGTON. Durham, N. C.
A. B., University of North Carolina, 1913; A. M., Trinity College, 1916; Medical Student, University of North Carolina, 1916-18.

FRED GAY CARTER. Rio Vista, Va. 1830 *N. Bdway.*
A. B., University of Wisconsin, 1911; Medical Student, *ibid*, 1915-16 and 1917-18.

ERNEST JOSEPH CAULFIELD. Hartford, Conn. 520 *N. Bdway.*
S. B., Trinity College (Conn.), 1916.

HAZEN GRAVES CHAMBERLIN. Ischua, N. Y. 1226 *N. Broadway.*
A. B., Pomona College, 1916.

SHEO NAN CHEER. Nanking, China. 521 *N. Wolfe St.*
A. B., University of Nanking, 1917; Graduate Student, Johns Hopkins University, 1916-17; Medical Student, Harvard Medical School of China, 1914-16.

ELEANOR CLARY. Worcester, Mass. 1020 *Cathedral St.*
A B., Vassar College, 1914; Graduate Student, Radcliffe College, 1915-1916.

PAUL CRENSHAW COLONNA. Richmond, Va. 716 *N. Bdway.*
A. B., Randolph-Macon College, 1915; Medical Student, Medical College of Virginia, 1916-17.

GUY NELSON CROMWELL. Anne Arundel Co. *Brooklyn.*
A. B., Johns Hopkins University, 1916.

SEVERN TEACKLE WALLIS CULL. Baltimore. 1415 *Park Av.*
A. B., Princeton University, 1914; Graduate Student, Johns Hopkins University, 1915-1916.

HENRY LAURAN DARNER. Hagerstown. 1519 *N. Broadway.*
A. B., Western Maryland College, 1916.

DANIEL CADY DARROW. Fargo, N. D. 606 *N. Broadway.*
A. B., Cornell University, 1916.

EDWARD CLARK DAVIDSON. Bellevue, Pa. 1216 *N. Broadway.*
S. B., Harvard University, 1916.

*PERCY BERNARD DAVIDSON. Boston, Mass. 1708 *E. Monument St.*
A. B., Harvard University, 1916.

HERBERT HAYWOOD DAVIS. Omaha, Nebr. 1216 *N. Bdway.*
A. B., Cornell University, 1917; Medical Student, *ibid.*, 1916-17.

ATALA SCUDDER DAVISON. Brooklyn, N. Y. 1720 *E. Madison St.*
A. B., Bryn Mawr College, 1915.

FRANCIS RAYMOND DIEUAIDE. New York, N. Y. 21 *W. Chase St.*
A. B., College of the City of New York, 1913; Graduate Student, Columbia University, 1915-1916; Medical Student, *ibid.*, 1916-17.

HELENE DOETSCH. Baltimore. 733 *W. Lombard St.*
A. B., Goucher College, 1916

ROGER GAMBLE DOUGHTY. Augusta, Ga. 518 *N. Broadway.*
S. B., University of Georgia, 1916.

RICHARD DRESSER. Providence, R. I 316 *N. Bdway.*
Ph. B., Brown University, 1916.

VALCOULON LEMOYNE ELLICOTT. Baltimore Co. *Melvale.*
S. B., Massachusetts Institute of Technology, 1916.

AUGUSTUS ROI FELTY. Hartford, Conn. 606 *N. Bdway.*
A. B., Yale University, 1916.

FRANK RODOLPH FORD. Fairfax, Va. 1511 *Bolton St.*
A. B., Johns Hopkins University, 1915.

JAMES CHARLES FOX, JR. Middletown, Conn. 518 *N. Bdway.*
A. B., Williams College, 1916.

ROBERT ELMER FRICKE. Baltimore. 2422 *N. Calvert St.*
A. B., Johns Hopkins University, 1916.

JONAS STEIN FRIEDENWALD. Baltimore. 1029 *Madison Av.*
A. B., Johns Hopkins University, 1916.

WILLIAM HARRIS FUNK. South Bend, Ind. 518 *N. Bdway.*
A. B., Williams College, 1916.

CARL GAINES. Rome, Ga.
A. B., Mercer University, 1913.

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* Entered Feb 1, 1917.

MANUEL GUTMAN GICHNER. Baltimore. 1516 *Madison Av.*
A. B., Johns Hopkins University, 1916.

CARL HARTLEY GREENE. Columbia, Mo.
A. B., University of Missouri, 1914, and Medical Student, 1913-15; Graduate Student, Yale University, 1915-17.

ELMER PAUL GREENAWALT. Springfield, O. 1330 *N. Caroline St.*
A. B., Wittenberg College, 1915, and A. M., 1916.

ROBERT MCCULLEY HALBACH. Lancaster, Pa. 1816 *Park Av.*
S. B., Franklin and Marshall College, 1915, and M. S. 1916.

FRANKLIN MCCUE HANGER, JR. Staunton, Va. 1614 *E. Biddle St.*
S. B., University of Virginia, 1916.

HELEN HARRINGTON. Denver, Colo. 1725 *E. Fairmount Av.*
A. B., Wellesley College, 1902; A. M., University of Denver, 1915.

CHARLES LESTER HARTSOCK. Cumberland. 1727 *N. Bdway.*
S. B., St. John's College, 1916.

HARRY MORTON HAWKINS. Pittsburgh, Pa. 1228 *N. Eden St.*
A. B., Washington and Jefferson College, 1916.

RAYMOND WILLARD HAWKINS. Rochester, N. Y. 606 *N. Bdway.*
S. B., University of Rochester, 1916.

ARTHUR JOSEPH HEARN. Hudson, N. Y. 1525 *N. Bdway.*
Ph. B., Yale University, 1916.

LEIGHT MONROE HIGGINS. Athens, O. 606 *N. Broadway.*
A. B., Ohio University, 1916.

ALEXANDER CHARLES HOFFMEISTER. Athens, O. 1622 *E. Biddle St.*
S. B. and M. S., Ohio University, 1915-16; Summer quarter, Chicago, 1915; Student, Western Reserve Medical School, 1916-17.

EMMETT HOLT. New York, N. Y. 1216 *N. Bdway.*
A. B., Harvard University, 1916.

PHILIP BIRD HOPKINS. Baltimore. 234 *Laurens St.*
A. B., Randolph-Macon College, 1913; Summer School, Johns Hopkins University, 1914 and 1915.

EDITH BANFIELD JACKSON. Colorado Springs, Colo. 705 *N. Bdway.*
A. B., Vassar College, 1916.

FRANKLIN PARADISE JOHNSON. Columbia, Mo. 1508 *John St.*
A. B., University of Missouri, 1908; A. M., Harvard University, 1910, and Ph. D., 1912; Medical Student, University of Missouri, 1906-08.

WILLIAM OSCAR JOHNSON. Winchester, Ky. 806 *N. Bdway.*
S. B., Kentucky Wesleyan College, 1915; Graduate Student, Johns Hopkins University, 1915-16.

RALPH CHARLES KAHLE. Burlington, Ia. 716 *N. Bdway.*
A. B., State University of Iowa, 1916.

ROBERT PHELPS KENNEDY. Buffalo, N. Y. 518 *N. Bdway.*
A. B., Cornell University, 1912; Summer Session, Freiburg, 1911.

HOWARD MILTON KERN. Memphis, Tenn. 1234 *N. Bdway.*
A. B., University of Virginia, 1917; Medical Student, *ibid*, 1916-18.

HALFORD BENSON KNEALE. Anderson, Ind. 606 *N. Bdway.*
A. B., DePauw University, 1915.

GUY WHITMAN LEADBETTER. S. Lincoln, Me. 606 *N. Bdway.*
A. B., Bowdoin College, 1916.

CHARLES ALEC LEVIN. Norwich, Conn. 606 *N. Bdway.*
A. B., Brown University, 1916.

BERTRAM DAVID LEWIN. San Antonio, Tex. 1222 *N. Bdway.*
A. B., University of Texas, 1916.

JACOB LIVINGSTON. Dover, N. J. 1620 *E. Biddle St.*
S. B., Lafayette College, 1916.

GEORGE MARSHALL LYON. Huntington, W. Va. 518 *N. Bdway*
S. B., Denison University, 1916.

JOSEPH MORTIMER MARCUS. Glens Falls, N. Y. 520 *N. Bdway.*
Ph. B., Yale University, 1916.

LAY MARTIN. Roland Park. 214 *Longwood Rd.*
S. B., Princeton University, 1915.

WILLIAM CURRY MARTIN. Lexington, Ky. 806 *N. Bdway.*
A. B., University of Kentucky, 1916.

CRUTCHER MCCLURE. Nashville, Tenn. 716 *N. Bdway.*
S. B., Vanderbilt University, 1916; Medical Student, *ibid*, 1916-18.

CHARLES CLIFTON MCCOY. East Liverpool, O. 935 *N. Calvert St*
S. B., Princeton University, 1915.

ARCHIBALD MURDOCH MCKEITHEN. Cameron, N. C. 1612 *E. Biddle St.*
S. B., Davidson College, 1916.

CLYDE MCNEILL. Edgemore, S. C. 520 *N. Bdway.*
A. B., Erskine College, 1915; S. B. and A. M., University of South Carolina, 1916.

FITZ RANDOLPH MOORE. Lisbon, O. 1525 *N. Broadway.*
A. B., Westminster College (Pa.), 1916.

ELIZABETH GRACE NICHOLLS. Williamsburg, Mass.
A. B., Vassar College, 1915. 2034 *N. Calvert St.*

ERWIN ELLIS NELSON. Springfield, Mo. 1601 *E. Preston St.*
A. B., University of Missouri, 1914, and A. M., 1916; Medical Student, *ibid*, 1918-18.

LILLIAN LYDIA NYE. New Haven, Conn. 527 *N. Wolfe St.*
A. B., University of Minnesota, 1909, and A. M., 1910; Medical Student, Yale University, 1916-18.

DANIEL PATRICK O'BRIEN. Torrington, Conn.
Ph. B., Yale University, 1915; Medical Student, *ibid*, 1916-17.

ROBERT WESLEY PARR. Marietta, O. 120 *Jackson Pl.*
A. B., Marietta College, 1916.

SUSANNE RING PARSONS. Lincoln, Nebr. 1237 *N. Caroline St.*
S. B., University of Nebraska, 1914, and A. M., 1915.

WINTHROP MORGAN PHELPS. Plainfield, N. J. 1016 *N. Bdway.*
S. B., Princeton University, 1916.

RENA KATE PIPER. Racine, Wis. 104 *Jackson Pl.*
S. B., University of Wisconsin, 1916.

HARRY WILLIAM PLATH. Davenport, N. D. 716 *N. Bdway.*
S. B., Fargo College, 1916.

ARTHUR CHIPMAN PRIMROSE. Baltimore. 518 *N. Broadway.*
A. B., Johns Hopkins University, 1916.

FRANK H. PURCELL. Detroit, Mich. 510 *N. Broadway.*
A. B., University of Michigan, 1916.

FREDERICK LEET REICHERT. Lancaster, Pa. 1022 *N. Bdway.*
Ph. B., Franklin and Marshall College, 1916.

MARY TORREY ROUDEBUSH. Memphis, Tenn. 718 *N. Bdway.*
S. B., University of Wisconsin, 1918; Medical Student, *ibid*, 1913-14 and 1917-18.

JOHN AUGUST SCHEURICH. Baltimore. 2201 *Harford Av.*
A. B., Loyola College, 1916.

JOHN ARMSTRONG SHACKELFORD. Martinville, Va. 1216 *N. Bdway.*
S. B., Hampden-Sidney College, 1916.

HUGH PERCY SHELLABEAR. Baltimore. 2512 *Guilford Av.*
A. B., Ohio Wesleyan University, 1912, and A. M., 1913.

EDWARD PIERCE LENTZ SHOPE. Harrisburg, Pa. 808 *N. Bdway.*
A. B., Dickinson College, 1916.

ROGER SHORE SIDDALL. Sumter, S. C. 606 *N. Broadway.*
A. B., University of North Carolina, 1916; Medical Student, *ibid*, 1916-18.

HERBERT CLARE SOULE, JR. Rochester, N. Y. 606 *N. Bdway.*
S. B., University of Rochester, 1916.

GEORGE SIDNEY SPRAGUE. Lexington, Ky. 1213 *W. Fayette St.*
S. B., University of Kentucky, 1916.

MARGERY MAY STAUFFER. San Francisco, Cal. *Y. W. C. A.*
A. B., University of Toronto, 1917; Medical Student, *ibid.*, 1915-17.

DAVID STEEL. Auburn, R. I. 606 *N. Bdway.*
Ph. B., Brown University, 1916.

EMERSON LAW STONE. Philmont, N. Y. 518 *N. Bdway.*
A. B., Williams College, 1916.

ARTHUR GEORGE SULLIVAN. Northampton, Mass. 1022 *N. Bdway.*
A. B., Catholic University of America, 1916.

NORMAN E. TANNENBAUM. Crawfordsville, Ind. 1612 *E. Biddle St.*
A. B., Wabash College, 1915, and A. M., 1916.

MARGARET TAYLOR. Canandaigua, N. Y. 705 *N. Bdway.*
A. B., Vassar College, 1915.

RICHARD WESLEY TELINDE. Waupun, Wis. 1830 *N. Bdway.*
A. B., University of Wisconsin, 1917; Medical Student, *ibid,* 1916-18.

THOMAS HERBERT THOMASON. Huntsville, Tex. 518 *N. Bdway.*
A. B., University of Texas, 1916.

CLARA MABEL THOMPSON. Providence, R. I. 104 *Jackson Pl.*
A. B., Brown University, 1916.

EUGENE NELSON VANDYKE. Renova, Pa. 828 *N. Broadway.*
S. B., Princeton University, 1916.

LEWIS CLARK WAGNER. Nicholasville, Ky. 1612 *E. Biddle St.*
A. B., Georgetown College (Ky.), 1916.

ALGERNON STORRS WARINNER. Richmond, Va. 1022 *N. Bdway.*
A. B., Hampden-Sidney College, 1914; Summer School, Johns Hopkins University, 1915.

JOSEPH WEINER. New Haven, Conn. 1620 *E. Biddle St.*
Ph. B., Yale University, 1916; Medical Student, *ibid.*, 1916-17.

ARCHIBALD WIESE. Pittsburgh, Pa. 1016 *N. Bdway.*
S. B., Princeton University, 1916.

HELEN JANE ZILLMER. Milwaukee, Wis. 33 *E. Mt. Vernon Pl.*
A. B., University of Wisconsin, 1916; Medical Student, *ibid.*, 1916-17.

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Second Year

HARRY DAVIS ABELL. Smithland, Ky. 806 *N. Bdway.*
S. B., University of Kentucky, 1917.

CLYDE I. ALLEN. Danville, Ill. 518 *N. Broadway.*
A. B., Illinois Wesleyan University, 1917.

EDWIN COWLES ANDRUS. Oberlin, Ohio. 518 *N. Broadway*
A. B. and A. M., Oberlin College, 1916 and 1917.

WILLIAM DEWITT ANDRUS. Oberlin, Ohio. 518 *N. Broadway.*
A. B. and A. M., Oberlin College, 1916 and 1917.

ELIZABETH ARTHURS. Baltimore. 410 *N. Broadway.*
A. B., Vassar College, 1916; Summer School, J. H. U., 1916.

CECIL H. BAGLEY. Bagley. 5 *W. Chase St.*
A. B., Johns Hopkins University, 1917.

IMOGEN BALDWIN. Youngstown, Ohio. 410 *N. Broadway*
A. B., Mt. Holyoke College, 1916, and Graduate Student, 1916-17.

CLAUDE SCHAEFFER BECK. St. Clair, Pa. 1222 *N. Caroline St.*
A. B., Franklin and Marshall College, 1916; Graduate Student, University of Pittsburgh, 1916-17.

WALTER ANDREW BELL. New York, N. Y. 606 *N. Bdway.*
A. B., Williams College, 1917.

RALPH DAVID BERGEN. Barberton, Ohio. 1529 *N. Bdway.*
A. B., Catholic University of America, 1917.

EDITH BOYD. Colorado Springs, Colo. 529 *N. Wolfe St.*
A. B., Colorado College, 1917.

DORSEY BRANNAN. Grafton, W. Va. 1614 *E. Biddle St.*
S. B., West Virginia University, 1916.

HELEN BRUCKMAN. San Francisco, Cal. 529 *N. Wolfe St.*
S. B., University of California, 1912, and Graduate Student, 1915.

WILLIAM MARCUS CORLEY, JR. Mexia, Texas. 101 *Jackson Pl.*
A. B., University of Texas, 1917.

MODESTINO CRISCITIELLO, JR. Jersey City, N. J. 1610 *E. Biddle St.*
A. B., Princeton University, 1917.

JOSEPH CHARLES CUNEO. Hoboken, N. J. 1322 *N. Caroline St.*
S. B., Princeton University, 1917.

MARGARET LOUISE CUTHBERTSON. Oakville, Canada. 127 *Jackson Pl.*
A. B., University of Toronto, 1913.

KENNETH MOSIER DAY. Pittsburgh, Pa. 1228 *N. Eden St.*
A. B., Princeton University, 1917.

KATHARINE DODD. Cambridge, Mass. 1739 *E. Fairmount Av.*
A. B., Bryn Mawr College, 1914.

LUCILE DOOLEY. Knoxville, Tenn. 1727 *E. Fairmount Av.*
A. B., Randolph-Macon Woman's College, 1905; A. M., University of Tennessee, 1915; Ph. D., Clark University, 1916.

MARION DREXEL DOUGLASS, JR. Mansfield, Ohio. 518 *N. Bdway.*
A. B., Kenyon College, 1917.

ERNEST EDLAVITCH. Bowie.
A. B., Johns Hopkins University, 1917.

ELIZABETH EMERSON. Providence, R. I. 1739 *Fairmount Av.*
A. B., Bryn Mawr College, 1917.

WARFIELD MONROE FIROR. Baltimore. 715 *Newington Ave.*
A. B., Johns Hopkins University, 1917.

CLYDE MARVIN FITCH. Portsmouth, O. 606 *N. Broadway.*
S. B., Ohio Wesleyan University, 1917.

ROBERT EDWARD FREEMAN. Spokane, Wash. 1610 *E. Biddle St.*
S. B., University of Washington, 1917.

CLARENCE FRY. McComb, O. 1010 *N. Broadway.*
A. B., Ohio Wesleyan University, 1917.

GEORGE HENRY GARDNER. Springfield, O. 1338 *N. Eden St.*
A. B., Wittenberg College, 1917.

MOSES GELLMAN. Richmond, Va. 1814 *Moreland Av.*
S. B., Richmond College, 1917.

GOMER FLOW GOFF. Sherman, Texas. 518 *N. Bdway.*
A. B., University of Texas, 1917.

HARRY HUMPHREY HAGGART. Fargo, N. D. 1012 *N. Broadway.*
A. B., Fargo College, 1914; Graduate Student, University of Minnesota, 1915-16; Medical Student, *ibid*, 1916-18.

HAROLD VERNON HARPER. Butler, Pa. 606 *N. Broadway.*
S. B., Allegheny College, 1916.

JULIAN DERYL HART. Buena Vista, Ga. 518 *N. Bdway.*
A. B., Emory University, 1916, and A. M., 1917.

JOSIAH B. HIBBITTS, JR. Union City, Tenn. 518 *N. Broadway.*
A. B., William Jewell College, 1916.

SAMUEL HERBERT HINTON. Dacula, Ga. 518 *N. Broadway.*
A. B., Emory University, 1916, and Graduate Student, 1917.

CHARLES HANCHETT HITCHCOCK. Chittenango, N. Y.
S. B., Amherst College, 1917. 1222 *N. Caroline St.*

IRA LUTHER HOUGHTON. Baltimore. 1719 *N. Calvert St.*
A. B., Johns Hopkins University, 1917.

CHESTER EZEKIEL HURWITZ. Baltimore. 900 *E. Lombard St.*
A. B., Johns Hopkins University, 1917.

DAVID TAYLOR HYATT. Monticello, Ark. 520 *N. Bdway.*
A. B., Washington and Lee University, 1916.

*MORRILL LEONARD ILSLEY. Waterville, Maine. 606 *N. Bdway.*
A. B., Colby College, 1917.

ARTHUR L. JACOBSON. Rugby, N. D. 518 *N. Bdway.*
A. B., University of North Dakota, 1917.

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* School of Hygiene.

CHARLES REES JENKINS. Charleston, S. C. 1028 *N. Bdway.*
S. B., Davidson College, 1917.

LLOYD B. JOHNSTON. Faulkton, S. D. 518 *N. Broadway.*
S. B, Huron College, 1915.

MANUEL JUSTO. Juncos, P. R. 529 *N. Wolfe St.*
S. B., University of Porto Rico, 1915; M. S., Michigan Agricultural College, 1917.

IRMARITA KELLERS. Jersey City, N. J. 33 *E. Mt. Vernon Pl.*
A. B., Vassar College, 1916.

JABOLD ELIJAH KEMP. Bloomington. 520 *N. Broadway.*
A. B., Western Maryland College, 1917.

RALPH EMERSON KENDALL. Alliance, Ohio. 518 *N. Bdway.*
S. B., Mount Union College, 1917.

*FRANCIS P. KENNY. Dravosburg, Pa. 1022 *N. Bdway.*
A. B., Catholic University, 1916.

EDWARD ANDREW KITLOWSKI. Nanticoke, Pa. 520 *N. Bdway.*
S. B., Bucknell University, 1917.

HARVEY KLOCK. Herndon, Pa. 411 *N. Bdway.*
A. B., Haverford College, 1917.

LAWRENCE SCHLESINGER KUBIE. New York, N. Y. 529 *N. Wolfe St,*
A. B., Harvard University, 1916.

PAUL BEATTIE MACCREADY. Samarcand, N. C. 510 *N. Bdway.*
S. B., Princeton University, 1916.

JOHN ARCHIBALD MCKAY. Buie's Creek, N. C. 520 *N. Broadway.*
A. B. and A. M., University of North Carolina, 1911 and 1912.

JAMES PATRICK MOLLOY, JR. Chicago, Ill. 615 *N. Carrollton Av.*
A. B., St. Ignatius College (Chicago), 1916; Graduate Student, Johns Hopkins University, 1916-1917.

LESLIE EDWIN MYATT. Dickson, Tenn. 1338 *N. Eden St.*
S. B., Vanderbilt University, 1917.

ISAAC Y. OLCH. Providence, R. I. 1614 *E. Biddle St.*
Ph. B., Brown University, 1917.

CAYETANO PANETTIERE. Lima, Peru. 706 *Madison Av.*
S. B., and A. M., Washington College, 1915 and 1916; Graduate Student, *ibid.*, 1916-1917.

HENRY MILLER POWELL. Salem, Va. 520 *N. Broadway.*
A. B., Roanoke College, 1917.

MARIAN CABOT PUTNAM, JR. Boston, Mass. 33 *E. Mt. Vernon Pl.*
A. B., Radcliffe College, 1917.

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* Entered January 1, 1918.

EVELYN B. REICHENBACH. Rochester, N. Y. 410 *N. Bdway.*
S. B., University of Rochester, 1917.

WILLIAM HARRY RESNIK. New Haven, Conn. 1622 *E. Biddle St.*
Ph. B., Yale University, 1916.

KEITH CHILTON RICE. Morristown, Tenn. 520 *N. Bdway.*
A. B., Washington and Lee University, 1917.

ARCHIBALD LOCKHART RIDDICK. High Point, N. C. 520 *N. Bdway.*
S. B., Guilford College, 1916.

ALICE ELIZABETH ROCKWELL. Ridgefield, Conn. 104 *Jackson Pl.*
A. B., Goucher College, 1917.

WILLIAM HELLMAN ROSENAU. Baltimore. 1515 *Eutaw Place.*
A. B., Johns Hopkins University, 1917.

DAVID HARRY RUBEN. Washington, Pa. 1622 *E. Biddle St.*
S. B., Washington and Jefferson College, 1917.

WILLIAM PAUL SADLER, JR. Van Buren, Ark. 606 *N. Bdway.*
A. B., University of Arkansas, 1916.

WINFIELD WENTWORTH SCOTT. Batavia, N. Y. 606 *N. Bdway.*
S. B., University of Rochester, 1915.

GORDON STIFLER SEAGRAVE. Granville, O. 1310 *N. Bdway.*
A. B., Denison University, 1917.

EUGENE CLAY SHAW. Cuba, Ala. 520 *N. Broadway.*
A. B., Howard College, 1915, and A. M., 1916.

CHARLES PHILLIPS MAHOOD SHEFFEY. Lynchburg, Va.
A. B. and A. M., Randolph-Macon College, 1914 and 1915.
1222 *N. Caroline St.*

KENNETH EDWIN SMILEY. Santa Ana, Cal. 810 *N. Bdway.*
S. B., Occidental College, 1917.

ARTHUR ADLER SONDHEIMER. Lancaster, Pa. 1338 *N. Eden St.*
A. B., Franklin and Marshall College, 1917.

DAN MAX STIEFEL. San Antonio, Tex. 1222 *N. Bdway.*
A. B., University of Texas, 1917.

*KO-CHI SUN. Siangtan, China. 505 *N. Wolfe St.*
A. B., Johns Hopkins University, February 22, 1918.

PAUL WINDOM SUTTON. Baltimore. 1735 *Bolton St.*
A. B., Johns Hopkins University, 1917.

HARRY MORGAN TIEBOUT. Brooklyn, N.Y. 1610 *E. Biddle St.*
S. B., Wesleyan (Conn.) University, 1917.

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* Entered January 1, 1918.

CHARLOTTE C. VAN WINKLE. Rutherford, N. J. 813 *N. Bdway.*
A. B., Smith College, 1914; Graduate Student, New York University, 1915-16.

HELEN VINCENT. Winter Park, Fla. 410 *N. Bdway.*
A. B., Mount Holyoke College, 1915.

SILAS WILLARD WALLACE. Spring City, Tenn. 806 *N. Bdway.*
S. B., Earlham College, 1917.

MARY DUNNE WALSH. Richmond, Va. 11 *E. Chase St.*
A. B., Trinity College, Catholic University, 1916; Graduate Student, Columbia University, 1915-16.

GRANT E. WARD. Bereo, O. 1610 *E. Biddle St.*
A. B., Baldwin and Wallace College, 1917.

ROXIE ADELINE WEBER. Lagrange, Texas. 104 *Jackson Pl.*
A. B., University of Texas, 1916.

ALEXANDER ASHLEY WEECH. Baltimore. 520 *N. Broadway.*
A. B., Johns Hopkins University, 1917.

CASPAR LIGON WOODBRIDGE. Shanghai, China. 1610 *E. Biddle St.*
A. B., Princeton University, 1916.

MAX MASER ZINNINGER. Canton, Ohio. 411 *N. Broadway.*
A. B., Harvard University, 1917.

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First Year

ROBERT STRAHL ANDREWS. Hampton, Iowa. 1028 *N. Bdway.*
S. B., Grinnell College, 1916; Graduate Student, Johns Hopkins University, 1917-18.

WILLIAM WIESS BELFORD. Georgetown, Texas. 1613 *E. Biddle St.*
A. B., Southwestern University, 1918.

ARTHUR HENDLEY BLAKEMORE. Senora, Va. 120 *Jackson Pl.*
S. B., William and Mary College, 1918.

ALFRED BLALOCK. Jonesboro, Ga. 1327 *N. Eden St.*
A. B., University of Georgia, 1918.

JOSEPH ROGERS BLALOCK. Weldon, N. C. 427 *N. Broadway.*
A. B. and A. M., Wake Forest College, 1918.

MARGARET LATHROP BRONSON. New Haven, Conn.
A. B., Vassar College, 1908; Graduate Student, *ibid*, 1917-18.
1727 *E. Fairmount Av.*

CHARLES ELBERT BUELL, JR. Detroit, Mich. 1209 *N. Broadway.*
A. B., University of Michigan, 1918.

CHARLES RICHARD BUGG. Farmville, Va.
A. B., Hampden-Sidney College, 1916.

DOROTHY SAUNDERS BURDICK. Baltimore. 2706 *Elsinore Av.*
A. B., Mount Holyoke College, 1918.

JAMES FORD BUSBY. Rose Hill, Iowa. 1626 *E. Biddle St.*
S. B., Grinnell College, 1918.

WILLIAM ARMSTEAD CAMPBELL, JR. Colorado Springs, Col.
A. B., Colorado College, 1918. *The Emerson.*

JOHN ALBERT CARNAGEY, JR. Danville, Ky. 1611 *E. Biddle St.*
S. B., Centre College (Ky.), 1918.

JESSIE REED COCKRILL. San Antonio, Tex.
A. B., Western College for Women, 1918.

MABEL BURNETT COHN. Albany, N. Y. 104 *Jackson Pl.*
A. B., Vassar College, 1918.

JAY CECIL CRAGER. Beaumont, Tex. 1028 *N. Bdway.*
A. B., University of Texas, 1918.

ROBERT GLENN CRAIG. Albany, Ga. 1016 *N. Broadway.*
A. B., Washington and Lee University, 1917.

RICHARD TYNER CRECRAFT. Franklin, Ind. 1016 *N. Broadway.*
A. B., Franklin College, 1918.

MAX CUTLER. Athens, Ga. 1327 *N. Eden St.*
S. B., University of Georgia, 1919.*

ARTHUR CHARLES DANIELIAN. Fowler, Cal. 1632 *Jefferson St.*
A. B., University of Southern California, 1917.

ARCHIBALD SWEETLAND DEAN. Woodford, Me. 1906 *E. Madison St.*
S. B., Bowdoin College, 1918; Summer School, University of Maine, 1917, and Harvard, 1918.

DAVID DAVIS. Washington, D. C. 403 *N. Bdway.*
A. B., George Washington University, 1917.

WALTER JOSEPH DECKER. Westfield, Pa. 810 *N. Bdway.*
S. B., St. John's College, 1918.

RISDEN JASPER DEFORD. Savannah, Tenn. 606 *N. Bdway.*
A. B., University of Tennessee, 1918.

CLAUDE GARRISON DRACE. Kennett, Mo. 705 *Newington Av.*
S. B., Vanderbilt University, 1918.

ROBERT HARRIS DURHAM. Silver City, N. C. 520 *N. Bdway.*
A. B., Trinity College (N. C.), 1918.

ROSE MARGARET DWYER. Hartford, Ct. 512 *N. Broadway.*
A. B., Adelphi College, 1918.

DANIEL EUGENE EAGLE. Statesville, N. C. 810 *N. Bdway.*
A. B., University of North Carolina, 1917.

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* Degree to be conferred June, 1919.

*STUART WILSON EGERTON. Baltimore. 1 *E. Mt. Royal Av.*
A. B., Johns Hopkins University, 1918.

ROBERT ELMAN. Syracuse, N. Y. 1929 *McElderry St.*
S. B., Harvard University, 1918.

HELEN WARDNER EVARTS. Cambridge, Mass. 410 *N. Bdway.*
A. B., Vassar College, 1917; Graduate Student, Radcliffe College, 1917-18.

RALPH LEE FISHER. Wilmington, N. C. 520 *N. Bdway.*
A. B., Trinity College (N. C.), 1918.

LEWIS BARR FLINN. Wilmington, Del. 510 *N. Bdway.*
A. B., Princeton University, 1918.

BENJAMIN FRANKLIN FREEMAN. Waco, Tex. 1613 *E. Biddle St.*
A. B., Baylor University, 1917.

FRANK WEBSTER GARBER. Muskegon, Mich. 1224 *N. Caroline St.*
A. B., University of Wisconsin, 1917.

CHARLES A. GARRETT. Waco, Tex. 606 *N. Broadway.*
A. B., Baylor University, 1918.

ANDREW MUNCY GROSECLOSE. Ceres, Va. 520 *N. Broadway.*
A. B., Roanoke College, 1918.

CHARLES ROBERT LEE HALLEY. Sheridan, Wyo. 606 *N. Bdway.*
A. B., University of Missouri, 1918.

PAUL MYRON HAMILTON. Colorado Springs, Col. 806 *N. Bdway.*
A. B., Colorado College, 1918.

THOMAS HARROLD, JR. Americus, Ga. 1224 *N. Caroline St.*
S. B., University of Georgia, 1918.

KATHARINE HAVARD. New Orleans, La. 313 *N. Bdway.*
A. B., Newcomb College, 1915.

CLYDE ALEXANDER HEATLY. Schenectady, N. Y. 704 *N. Bdway.*
A. B., Union College, 1918.

ROBERT MULLINEAUX HEINE. Baltimore. 2901 *Brighton St.*
A. B., St. John's College, 1910.

WALTER GUSTAV HOUSEAL, JR. Newberry, S. C. 1612 *E. Biddle St.*
A. B., Newberry College, 1915; S. B., College of Charleston, 1917.

RAYMOND BLUE HUNTER. Adrian, Mich. 1509 *E. North Av.*
S. B., Adrian College, 1914.

RHODA MURIEL IVIMEY. New York, N. Y. 1731 *Fairmount Av.*
A. B., Barnard College, 1911.

EDWIN BOSLEY JARRETT. Jarrettsville. 3028 *St. Paul St.*
A. B., Johns Hopkins University, 1918.

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* Entered January, 1919

THOMAS BANFORD JONES. Utica, N. Y. 606 *N. Broadway.*
A. B., Hamilton College, 1918.

CHESTER SCOTT KEEFER. Altoona, Pa. 632 *N. Broadway.*
S. B., Bucknell University, 1918.

EDMUND HOFFECKER KERPER. Pottstown, Pa. 1209 *N. Caroline St.*
S. B., Princeton University, 1918.

JAMES EDWARD KING. Atlanta, Tex. 1613 *E. Biddle St.*
A. B., Southern Methodist University, 1918.

ELIZABETH AMANDA KITTREDGE. Westford, Mass. 104 *Jackson Pl.*
A. B., Vassar College, 1912; A. M., Columbia University, 1913.

HARRY AARON KLEE. Washington, Pa. 1613 *E. Biddle St.*
A. B., Washington and Jefferson College, 1918.

JOHN HENRY KNOOP. Baltimore. 521 *N. Wolfe St.*
A. B., Johns Hopkins University, 1918.

ORTHELLO RICHARDSON LANGWORTHY. Hamilton, N. Y.
A. B., Colgate University, 1918. 606 *N. Broadway.*

RAYMOND EARL LENHARD. Baltimore. 32 *S. Fulton Av.*
A. B., Johns Hopkins University, 1918.

ISIDORE IRVIN LEVY. Baltimore. 705 *W. Lexington St.*
A. B., Johns Hopkins University, 1918.

ROBERT KORN LIPPMANN. New York, N. Y. 313 *N. Bdway.*
S. B., Columbia University, 1918.

ROBERT COLNON LONERGAN. Chicago, Ill. 1624 *E. Preston St.*
A. B., Syracuse University, 1918.

WILLIAM SAMUEL LOVE, JR. Baltimore. 836 *W. North Av.*
A. B., Johns Hopkins University, 1918.

JACOB ISAAC MARGOLIS. New York, N. Y. 1228 *N. Bdway.*
Ph. B., Yale University, 1918.

CLETUS EDMUND MCGUIGAN. Baltimore. 328 *Wyman Ave.*
A. B., Johns Hopkins University, 1918.

ISRAEL DAVID MICHELSON. Baltimore. 832 *E. Baltimore St.*
A. B., Johns Hopkins University, 1918.

DOROTHEA MAY MOORE. Cambridge, Mass. 428 *N. Bdway.*
A. B., Bryn Mawr College, 1915; Graduate Student, Radcliffe College, 1915-16.

FRANK GUY MOORE. Union, N. Y. 606 *N. Broadway.*
A. B., Hamilton College, 1918.

BESSIE LOUISE MOSES. Baltimore. 3601 *Garrison Boul.*
A. B., Goucher College, 1915; Graduate Student, Johns Hopkins University, 1915-16.

MORRIS JACOBI MOSKOWITZ. Rochester, N. Y. 806 *N. Bdway.*
S. B., University of Rochester, 1918.

BERNHARD NEWBERGER, JR. Lexington, Ky. 1028 *N. Bdway.*
A. B., University of Missouri, 1918.

*JOSEPH EDWARD NOWREY, JR. West Collingswood, N. J.
A. B., University of Southern California, 1917. 520 *N. Broadway.*

LEROY MATTHEW POLVOGT. Wilmington, N. C. 520 *N. Bdway.*
A. B., Roanoke College, 1918.

ROSA ELIZABETH PRIGOSEN. Brooklyn, N. Y. 1755 *Jefferson St.*
A. B., Adelphi College, 1916.

CATHRYN VEDALIA RILEY. Washington, D. C. 1713 *Fairmount Av.*
A. B., Wellesley College, 1912; S. B., Cornell University, 1916; A. M., Johns Hopkins University, 1916.

J. EVERETT SANNER. Baltimore. 620 *W. North Av.*
A. B., Johns Hopkins University, 1918.

WILLIAM JOHN SCOTT. Cape Charles, Va.
A. B., Hampden-Sidney College, 1915; M. A., University of Virginia, 1917.

WILLIAM EYRE SISSON. Providence, R. I. 406 *N. Bdway.*
A. B., Brown University, 1918.

CLARENCE SMITH. Elyria, Ohio. 424 *N. Broadway.*
S. B., Ohio Northern University, 1918.

DAVID TILLERSON SMITH. Greenville, S. C. 427 *N. Bdway.*
A. B., Furman University, 1918.

MARGARET GLADYS SMITH. Carnegie, Pa. 410 *N. Broadway.*
A. B., Mount Holyoke College, 1918.

THOMAS COOK SMITH. Dublin, Ga. 1016 *N. Broadway.*
S. B., Emory University, 1917.

SUSIE PAGE SOUTHER. Lincoln, Neb. 127 *Jackson Pl.*
A. B., University of Nebraska, 1918.

HARRY WELLINGTON VANCE. French Creek, W. Va. 128 *Jackson Pl.*
A. B., West Virginia Wesleyan College, 1918.

CHARLES WILLIAM WAINWRIGHT, JR. Princess Anne. 1519 *N. Bdway.*
A. B., Western Maryland College, 1914.

**WILLIAM HORACE FRANKLIN WARTHEN. Baltimore. 1647 *Wilkens Av.*
Johns Hopkins University.

HARRY WASSERMAN. Baltimore. 721 *W. Saratoga St.*
A. B., Johns Hopkins University, 1918.

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* Entered January 1, 1919.
** Candidate for A. B. in June, 1919.

EDWIN DAVID WEINBERG. Lonaconing. 806 *N. Broadway.*
A. B., Dickinson College, 1917.

BEULAH WELLS. Cleveland, Ohio. 104 *Jackson Pl.*
A. B., Vassar College, 1909.

WILLIAM JOHN HENRY BRADEN WELLS, Baltimore. 120 *S. Calhoun St.*
A. B., Johns Hopkins University, 1918.

JULIAN OTTO WILKE. Los Angeles, Cal. 1602 *E. Biddle St.*
A. B., University of Southern California, 1917.

ISABELLA MILLING WILLIAMS. Jacksonville, Fla.
S. B., Florida State College for Women, 1918.

FLORENCE JOSEPHINE WIMSATT. Washington, D.C. 127 *Jackson Pl.*
A. B., Trinity College (D. C.), 1916, and A. M., 1917; Graduate Student, Johns Hopkins University, 1917-18.

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Total (373)

ATTENDANTS ON SPECIAL COURSES

ANNE T. BINGHAM. New York, N. Y.
M. D., Syracuse University, 1900. *Psychiatry.*

MABIE L. KOCH. Baltimore.
Candidate for B. S. degree, J. H. U. *Histology and Anatomy.*

ELEANOR R. NALLE. Richmond, Va.
Student, Medical College of Virginia. *Bacteriology.*

JESSE A. NAYLOR. Fort Scott, Kans.
M. D., University Medical College, Mo., 1906. *Pathology.*

ADOLPH J. OSTERMAN. Seattle, Wash.
M. D., Gross Medical College, 1896. *Pathology.*

WILLIS JENKINS RICHARDSON. Martinsville, Va.
Undergraduate student, J. H. U. *Histology.*

RICHARD H. VAN DENBURG. Los Angeles, Cal.
M. D., Albany Medical College, 1904. *Urology.*

NOAH ZEHR. Fort Wayne, Ind.
M. D., Western Reserve University, 1908. *Urology.*

PAULINE ZINNINGER. Canton, O.
Histology.

(9)

C. School of Hygiene and Public Health

FELLOWS

NATHAN BERMAN. Port Chester, N. Y. 1005 *St. Paul St.*

Ph. B., S. M., and Ph. D., Yale University, 1914, 1916 and 1917. *Bacteriology.*

ROSCOE RAYMOND HYDE. Muncie, Ind. 3910 *Groveland Ave.*

A. B., Indiana State Normal School, 1908; A. B. and A. M., Indiana University, 1909; Ph. D., Columbia University, 1915. *Immunology.*

LINDA BARTELS LANGE. New York, N. Y. 804 *N. Broadway.*

A. B., Bryn Mawr College, 1903; M. D., Johns Hopkins University, 1911. *Bacteriology.*

RAYMOND CLEVELAND SALTER. Madison, Wis. 312 *W. Monument St.*

S. B., University of Wisconsin, 1915. *Bacteriology.*

GEORGE ADDISON TALBERT. Ripon, Wis. 614 *N. Howard St.*

S. B., Ohio Wesleyan University, 1888; Graduate Student, Johns Hopkins University, 1888-1889; S. M., Ohio Wesleyan University, 1892; Graduate Student, University of Berlin, 1898-1899. *Physiology.*

WALTER EUGENE THRUN. Ann Arbor, Mich. 1528 *Hollins St.*

A. B. and S. M., University of Michigan, 1912 and 1914; Ph. D., University of Missouri, 1917. *Bio-Chemistry.*

CANDIDATES FOR THE DEGREE OF DOCTOR OF PUBLIC HEALTH

JOHN ATKINSON FERRELL. New York, N. Y. *The Altamont.*

S. B. and M. D., University of North Carolina, 1902 and 1907.

GERALDO HORACIO DE PAULA SOUZA. São Paulo, Brazil.

Pharm. D., School of Pharmacy, São Paulo, 1908; M. D., Rio Janeiro, 1913. 1318 *McCulloh St.*

FRANCISCO BORGES VIEIRA. São Paulo, Brazil. 1318 *McCulloh St.*

B. Sc. e Lett., Gymnasium of São Paulo, 1911; M. D., Rio Janeiro, 1917.

GEORGE HUNTINGTON WILLIAMS. Baltimore, Md. 803 *Cathedral St.*

A. B., Harvard University, 1915; Fourth Year Medical Student, Johns Hopkins University.

CANDIDATE FOR THE DEGREE OF DOCTOR OF SCIENCE IN HYGIENE

SAMUEL PITLIK. Worcester, Mass. 2206 *E. Baltimore St.*

A. B., Clark College, 1917; A. M., University of Chicago, 1918. *Statistics.*

CANDIDATES FOR THE DEGREE OF BACHELOR OF SCIENCE IN HYGIENE

EDITH MARGARET JANE BARRETT. Memphis, Tenn. 4025 *Belle Ave.*
Student in Tulane University, 1915-1917, and Louisiana State Medical College, 1917-1918.

GLADYS NEWMAN. Buffalo, N. Y. 4025 *Belle Ave.*
A. B., Oberlin College, 1917.

SPECIAL STUDENTS

RUDOLPH JOSEPH BABOR. New York, N. Y.
S. B., Cornell University, 1918; Sanitary Corps, U. S. A.; *Nutrition.*

HARRY EDWARD BROWN. Detroit, Mich. 1414 *McCulloh St.*
A. B., University of Michigan, 1914; *Bacteriology and Physiology.*

GLADYS ADELINE GODDARD. New Salem, Mass. 13 *E. Read St.*
Student Simmons College, 1910-1911; University of Zurich, 1911-1912; University of Geneva, 1912; Johns Hopkins University, 1917-1918; *Bio-Chemistry.*

WILLIAM PICKARD JACOCKS. Elizabeth City, N. C. *The Altamont.*
A. B. and A. M., University of North Carolina, 1904 and 1905; M. D., University of Pennsylvania, 1911; *Physiology, Protozoölogy and Statistics.*

MARIE LOUISE KOCH. Baltimore, Md. 2524 *Maryland Ave.*
Statistics.

HERTHA LICHTENSTEIN. Winona, Minn. 1523 *McCulloh St.*
Bacteriology.

SCHELLER ALEXANDER MILLER. West Point, Miss.
S. B., Cornell University, 1911; Sanitary Corps, U. S. A.; *Nutrition.*

FLORENCE KING PAYNE. Port of Spain, Trinidad. 1305 *Madison Av.*
M. D., Syracuse University, 1909; *Bacteriology, Bio-Chemistry and Protozoölogy.*

RALPH EVANS STANTON. Providence, R. I.
Student in Brown University, 1915-1918; Sanitary Corps, U. S. A.; *Nutrition.*

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D. Department of Engineering

CANDIDATES FOR THE DEGREE OF BACHELOR OF ENGINEERING

JOHN LAWRENCE DE MARCO. Baltimore. 414 *S. Paca St.*
S. B., St. John's College, 1915. *Civil Engineering.*

CLINTON BATES JARMAN, JR. Greensboro.
A. B., Western Maryland College, 1918. *Electrical Engineering.*

JAMES ANDREW GREGG PENNINGTON. Baltimore. 1530 *Bolton St.*
A. B., Princeton University, 1912. *Mechanical Engineering.*

ANTHONY RUSSO SPARTANA. Baltimore. 615 *N. Washington St.*
A. B., Rock Hill College, 1917. *Electrical Engineering.*

WILLIAM DOLLEY TIPTON. Jarrettsville. 1810 *Guilford Av.*
A. B., Western Maryland College, 1910. *Electrical Engineering.*

(5)

UNDERGRADUATE STUDENTS

ISIDORE AARONSON. Baltimore. 19 *N. Washington St.*
I Yr.[1] Engineering. [Students' Army Training Corps.] [2]

FREDERICK ABBOTT. Baltimore. 2931 *N. Calvert St.*
I Yr. Chemical Engineering.

GHEEN RANDOLPH ABBOTT, JR. Baltimore. 3307 *Bateman Av.*
I Yr. Engineering. [S. A. T. C., Naval.] [2]

CHARLES ADLER, JR. Baltimore. 1718 *Eutaw Pl.*
I Yr. Military Academic. [S. A. T. C.] [2]

HENRY IRVING ADLER. Baltimore. 1624 *W. Fayette St.*
I Yr. (II). Civil Engineering. [S. A. T. C.]

JOSEPH AGUADO. Manila, P. I. 2708 *N. Charles St.*
II Yr. Electrical Engineering.

ISADORE JOSEPH ALBERT. Baltimore. 2111 *Callow Av.*
I Yr. Military Academic. [S. A. T. C.] [2]

EDWARD DOUGLAS ALLEN. Baltimore. *Washington Apts.*
I Yr. Civil Engineering.

HOWELL W. ALLEN, JR. Baltimore. 138 *W. 25th St.*
I Yr. Chemical Engineering.

WILLIAM BAKER ALLNUTT. Dawsonville.
I Yr. [S. A. T. C., Naval.] [2]

KARL H. ANDRAE. Baltimore. 6004 *Bellona Av., Govans.*
II Yr. (III). Mechanical Engineering.

FRANK APPLESTEIN. Baltimore. 2022 *E. Pratt St.*
III Yr. Chemical Engineering. [S. A. T. C.]

JOSEPH VALERIO ARELLANO Y R. Baltimore. 114 *E. 25th St.*
I Yr. Engineering.

ABDIEL JOSEPH ARIAS. Panama City, R. P. 2202 *N. Calvert St.*
III Yr. Academic (Chemistry).

EDGAR SHERMAN ARMACOST. Hampstead.
I Yr. Military Engineering. [S. A. T. C.] [2]

WILBUR LEROY ARMSTRONG. Prince George's Co. *Laurel.*
II Yr. (I). Electrical Engineering. [S. A. T. C.]

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[1] Year of residence (and of collegiate standing when identical). A numeral in ( ) signifies year of collegiate standing when different from residence.
[2] Withdrew on demobilization, December 10, 1918.

AARON ASKIN. Baltimore. 907 *Pennsylvania Av.*
I Yr. Academic (Pre-Medical).

HENRY ASNES. Baltimore. 1842 *W. North Av.*
I Yr. Military Academic. [S. A. T. C.] [2]

*WILLIAM FORRIS ATKINSON. Baltimore. 2202 *N. Calvert St.*
I Yr. Academic.

EUGENE STANLEY AULT. Baltimore. 715 *E. 20th St.*
II Yr. (III). Mechanical Engineering.

ALLEN ANDERSON AYCOCK. Monroe, Ga.
I Yr. Engineering. [S. A. T. C.] [2]

MARIANO BADILLO. Mexico City, Mex. *Central Y. M. C. A.*
II Yr. Academic (Biology).

ELI BAKER. Baltimore. 2309 *Mondawmin Av.*
II Yr. (III). Mechanical Engineering. [S. A. T. C.]

MORRIS RANDALL BAKER. Reisterstown.
II Yr. Military Academic. [S. A. T. C.] [2]

WILMOT COLES BALL. Baltimore. 1146 *Longwood St.*
II Yr. Electrical Engineering. [S. A. T. C.]

JACOB EDWARD BARNES. Baltimore. 1931 *W. Lanvale St.*
I Yr. Military Academic. [S. A. T. C.] [2]

RALPH OLIVER BARNETT. Sykesville.
II Yr. Military Academic. [S. A. T. C.] [2]

AARON BEAR BAROWAY. Baltimore. 2554 *McCulloh St.*
IV Yr. Academic.

ISRAEL BAROWAY. Baltimore. 2554 *McCulloh St.*
II Yr. Academic (Pre-Medical). [S. A. T. C.]

CARLTON ALEXANDER BARRETT. Baltimore. 19 *York Ct., Guilford.*
I Yr. Electrical Engineering. [S. A. T. C.]

THOMAS HENRY BARROW. Baltimore. 2135 *Chelsea Av.*
I Yr. Engineering. [S. A. T. C.] [2]

JOHN RIES BARTELS. Baltimore. 2117 *Lake Montebello Ter.*
III Yr. Academic. [S. A. T. C.]

EMORY SHELVY BASFORD. Anne Arundel Co. *Jessup.*
II Yr. Academic. [S. A. T. C.]

JOSEPH PALMER BASSETT, JR. Baltimore. 1629 *Eutaw Place.*
II Yr. Academic. [S. A. T. C.] [2]

AUGUST JOHN BAUERNSCHMIDT. Baltimore. 2317 *Arunah Av.*
I Yr. Chemical Engineering

*Died February 17, 1919.

ERNEST VAN CLEVE BAUGH, JR. Baltimore. 3008 *Clifton Av.*
I Yr. Academic. [S. A. T. C.]

CLAUDE HERBERT BAXLEY. Baltimore. 1126 *W. North Av.*
IV Yr. Civil Engineering.

HAROLD CRANSTON BEALL. Baltimore. 714 *Springhill Ter.*
I Yr. Civil Engineering.

PAUL UBURTO BEALL. Baltimore. 827 *W. 36th St.*
III Yr. Academic. [S. A. T. C.]

LESLIE CARRINGTON BEARD, JR. Hagerstown. 1311 *Linden Av.*
III Yr. (IV). Academic (Chemistry).

ISIDORE BEIERFELD. Baltimore. 1253 *E. Fayette St.*
I Yr. Engineering. [S. A. T. C.] [2]

ELMER JOHN BEISWANGER. Baltimore. 1467 *Homestead Av.*
I Yr. Engineering. [S. A. T. C.] [2]

VERNAL AUGUSTUS BELL. Baltimore. 217 *N. Calhoun St.*
I Yr. Academic.

DANIEL ISAAC BENNETT. Baltimore. 1601 *Eutaw Pl.*
I Yr. Military Academic. [S. A. T. C.] [2]

CARVILLE DICKINSON BENSON, JR. Baltimore Co. *Halethorpe.*
III Yr. Academic. [S. A. T. C., Naval.]

JOHN OREGON BENSON. Baltimore Co. *Halethorpe.*
III Yr. (II). Mechanical Engineering.

MAX BERLIN. Baltimore Co. *Texas.*
III Yr. Chemical Engineering. [S. A. T. C.]

BENJAMIN LOUIS BERMAN. Baltimore. 1749 *Belt Av.*
I Yr. Civil Engineering. [S. A. T. C., Naval.]

JACOB BERMAN. Baltimore. 10 *W. Hill St.*
I Yr. Military Academic. [S. A. T. C.] [2]

THOMAS MORRIS BERRY. Baltimore. 2005 *Guilford Av.*
III Yr. Chemical Engineering.

LAWRENCE ELWOOD BIEMILLER. Baltimore. 4704 *Garrison Av.*
II Yr. Chemical Engineering. [S. A. T. C.]

CHARLES EVERETT BILLS. Newburyport, Mass. 3123 *N. Calvert St.*
II Yr. Chemical Engineering. [S. A. T. C.]

JOHN FREDERICK BIRKMEYER. Baltimore. 1920 *W. Baltimore St.*
II Yr. Chemical Engineering. [S. A. T. C.]

RICHARD PINKNEY BLAKISTONE. River Springs. 2704 *St. Paul St.*
I Yr. Electrical Engineering. [S. A. T. C., Naval.]

JOSEPH SELMAN BLAUSTEIN. Baltimore. 805 *Chauncey Av.*
I Yr. Academic (Political Economy).

ABRAHAM JOEL BLECHMAN. Baltimore. 301 *S. Howard St.*
I Yr. Academic (Pre-Medical).

ABRAHAM PAUL BLOOM. Baltimore. 2003 *Linden Av.*
I Yr. Engineering. [S. A. T. C.] [2]

WILLIAM BLOOM. Baltimore. 3310 *Auchentoroly Ter.*
III Yr. (IV). Academic (Pre-Medical). [S. A. T. C.]

HARRY EUGENE BLOOMSBURG. Baltimore. 425 *N. Carey St.*
III Yr. Chemical Engineering. [S. A. T. C.]

ALBERT HERBERT BLUM. Baltimore. 2502 *Brookfield Av.*
II Yr. Academic. [S. A. T. C.]

MARTIN BLUMBERG. Baltimore. 2523 *McCulloh St.*
I Yr. Engineering. [S. A. T. C.] [2]

ANDREW LYLE BOLTON. Baltimore. 2120 *Mt. Royal Ter.*
I Yr. (II). Chemical Engineering. [S. A. T. C.]

EUGENE AYRES BOND. Baltimore. 1407 *Eutaw Pl.*
I Yr. Academic. [S. A. T. C.]

JAMES RAWLINGS HERBERT BOONE. Baltimore Co. *Lake Roland.*
II Yr. Academic. [S. A. T. C., Naval.]

RALPH FIRESTONE BOWERS. Frederick. 2704 *St. Paul St.*
I Yr. (II). Academic.

ALVIN JAMES BOYD. Street.
I Yr. Mechanical Engineering. [S. A. T. C.]

CHARLES HOLMES BOYD. Baltimore. 116 *Jackson Pl.*
II Yr. Civil Engineering. [S. A. T. C.]

WILLIAM WILLS BRADFORD, JR. Bel Air. 1318 *Bolton St.*
I Yr. Mechanical Engineering.

FORREST FULTON BRAMBLE. Baltimore. 939 *N. Broadway.*
II Yr. Academic. [S. A. T. C.]

EMANUEL ELI BRANSKY. Baltimore. 613 *S. Payson St.*
I Yr. Military Academic. [S. A. T. C.] [2]

DANIEL BAKER BRATT. Oxford.
III Yr. Academic.

JOSEPH TURENNE BRENNAN. Baltimore. 11 *E. Chase St.*
II Yr. Academic. [S. A. T. C.]

FRED BRESEE, JR. Pittsburg, Kan. 2804 *St. Paul St.*
III Yr. Academic (Pre-Medical). [S. A. T. C.]

LEROY BRUNDICK. Baltimore. 2205 *Bank St.*
I Yr. Military Academic. [S. A. T. C.] [2]

RICHARD MCGRANN BRYAN. Baltimore. 2104 *Homewood Av.*
I Yr. Military Academic. [S. A. T. C.] [2]

CHARLES GORDON BUCKEY. Frederick. 2723 *St. Paul St.*
I Yr. Mechanical Engineering.

HARRY WILLIAM BUDDEMEIER. Baltimore. 11 *N. Kenwood Av.*
I Yr. Engineering. [S. A. T. C.] [2]

GEORGE FERDINAND BURGER. Lauraville.
I Yr. Military Academic. [S. A. T. C.] [2]

THOMAS TERRY BURGER. Roland Park. *Normandie Hgts.*
III Yr. Academic. [S. A. T. C.]

NORMAN FARQUHAR BURNETT. Baltimore. 728 *Lennox St.*
I Yr. Military Academic. [S. A. T. C.] [2]

HARRY BURSTEIN. Baltimore. 200 *N. Bond St.*
II Yr. Academic (Chemistry).

THOMAS BALDWIN BUTLER. Baltimore. 13 *South St.*
I Yr. Military Academic. [S. A. T. C.] [2]

MELVIN ROY CABE. Baltimore. *Windsor Mill Rd.*
I Yr. Chemical Engineering. [S. A. T. C.]

HAROLD BERNARD CAHN. Baltimore. 2401 *Eutaw Pl.*
I Yr. Military Academic. [S. A. T. C.] [2]

BURDELLE SITTLER CANNON. Baltimore. 2143 *Homewood Av.*
I Yr. Academic (Pre-Medical).

LEWIS WELLINGTON CALL, JR. Garrett Park. *University.*
II Yr. Chemical Engineering. [S. A. T. C.]

FREDERICK RUSSELL CALKINS, JR. Watertown, N. Y. 2932 *St. Paul St.*
II Yr. Academic (Pre-Medical).

HARRY CAPLAN. Baltimore. 605 *Aisquith St.*
II Yr. Academic (Chemistry).

JOSEPH CAPLAN. Norfolk, Va.
I Yr. [S. A. T. C., Naval.] [2]

SAMUEL HARRY CAPLAN. Howard Co. *Ellicott City.*
I Yr. Academic (Pre-Medical).

OBE WILTON CARMAN. Baltimore. 1912 *W. Baltimore St.*
I Yr. Academic.

GEORGE UPSHUR CARNEAL. Richmond, Va. 3100 *N. Calvert St.*
III Yr. (IV). Academic (Pre-Medical).

CHAUNCEY ALBEE CARRIGAN. Baltimore. 1806 *N. Calvert St.*
I Yr. [S. A. T. C., Naval.] [2]

WILTON SNOWDEN CARTER. Baltimore. *Park Hgts. & Glenn Aves.*
I Yr. Academic.

HARRY JOSEPH CASEY. Baltimore. 4200 *Maine Av.*
I Yr. (III). Electrical Engineering.

EDWARD HAZEL CASHELL. Rockville. 2932 *St. Paul St.*
II Yr. Academic. [S. A. T. C., Naval]

LOUIS LIPPINCOTT CASSARD. Baltimore. 2105 *Bolton St.*
III Yr. Military Academic. [S. A. T. C.] [2]

GEORGE SCHOLL CATTANACH. Baltimore. 5824 *York Rd., Govans.*
III Yr. Academic (Pre-Medical). [S. A. T. C.]

LACHLAN MCARTHUR CATTANACH. Baltimore. 5824 *York Rd., Govans.*
II Yr. Academic (Pre-Medical). [S. A. T. C.]

JAMES LUTHER CHAMBERLAIN. Baltimore. 35 *S. Liberty St.*
I Yr. Electrical Engineering. [S. A. T. C.]

HSIN-HAI CHANG. Shanghai, China. 2625 *Maryland Av.*
I Yr. (III). Academic.

JOHN LUTHER CHARLTON. Baltimore. 33 *S. Fulton Av.*
I Yr. [S. A. T. C., Naval.] [2]

CHARLES FILLMORE CHISHOLM. Garrett Park. *University.*
IV Yr. Electrical Engineering. [S. A. T. C.]

THEODORE LIVINGS CHISHOLM. Garrett Park. 2326 *N. Charles St.*
IV Yr. Electrical Engineering. [S. A. T. C. Signal]

WILLIAM CHOMSKY. Baltimore. 123 *N. Bond St.*
II Yr. Academic (Pre-Medical).

WILLIAM JOHN CHRISTOPHER, JR. Baltimore. 804 *N. Gilmor St.*
I Yr. Military Academic. [S. A. T. C.] [2]

CHARLES BAKER CLARKE. Reisterstown.
II Yr. Electrical Engineering. [S. A. T. C.] [2]

EDWIN LOUIS CLINE. Baltimore. 4035 *Belle Av.*
I Yr. Academic (Chemistry).

CHARLES COHEN. Baltimore. 716 *S. Broadway*
I Yr. Engineering. [S. A. T. C.] [2]

HAROLD LAUER COHEN. Baltimore. 2001 *Eutaw Pl.*
IV Yr. (III). Academic. [S. A. T. C.] [2]

MAURICE COHEN. Washington, D. C. *University.*
II Yr. Civil Engineering. [S. A. T. C.]

MEYER COHEN. Baltimore. 2410 *Lakeview Av.*
I Yr. Engineering. [S. A. T. C.] [2]

AYLETT BRECKINRIDGE COLEMAN, JR. Roanoke, Va.
III Yr. Academic. [S. A. T. C.] 2313 *N. Calvert St.*

WILBUR HARDEN COLLIER. Baltimore. 208 *N. Carey St.*
I Yr. (II). Electrical Engineering. [S. A. T. C.]

ROBERT EDWARD LEE COLLINS. Baltimore Co. *Mt. Washington Hts.*
II Yr. Academic. [S. A. T. C.]

JOHN HARDING COLLINS. Chestertown. *University.*
III Yr. Mechanical Engineering. [S. A. T. C., Naval.]

WILLIAM BOND COLLINS. Trappe. *Peabody Apts.*
II Yr. Electrical Engineering.

ARTHUR GOODE CONNELL. Baltimore. *Royal Oak Av.*
I Yr. Engineering. [S. A. T. C.] [2]

RAYMOND SLOAN CONNOLLY. Baldwin.
I Yr. Military Academic. [S. A. T. C.] [2]

WILLIAM DODD COOK. Baltimore. 2204 *Chelsea Av.*
III Yr.(IV). Mechanical Engineering. [S. A. T. C,, Naval,]

ALFRED LEO CORMAN. Brooklyn, N. Y.
I Yr. Military Academic. [S. A. T. C.] [2]

HARRY ORRICK COST. Hagerstown.
I Yr. Engineering. [S. A. T. C.] [2]

HENRY DOUGLAS COTTON. Baltimore. *Arundel Apts.*
I Yr. Academic. [S. A. T. C.]

MYRON SANDLER COTTON. Baltimore. 2112 *Callow Av.*
I Yr. Academic (Chemistry).

JAMES PIFER COVER. Easton.
I Yr. Academic.

CHARLES RAYMOND COX. Baltimore Co. *Lutherville.*
I Yr Academic (Special).

RICHARD THRELKELD COX, JR. Baltimore. 1016 *N. Calvert St.*
III Yr. Academic.

PHILIP CHARLES CRAFT. Baltimore Co. *Mt. Washington.*
III Yr. Academic (History).

WALTER ALLEN CRIST. Baltimore Co. *University.*
II Yr. Academic (Pre-Medical).

CHARLES CLYDE CROCKETT. Baltimore. 3812 *Greenmount Av.*
I Yr. Mechanical Engineering. [S. A. T. C., Naval.]

WILLIAM KENNEDY CROMWELL, JR. Baltimore Co. *Lake Roland.*
III Yr. Academic.

DOUGLAS VAUGHAN CROKER. Baltimore. 3653 *Cottage Av.*
I Yr. Mechanical Engineering.

JAMES KIMMEY CULLEN, JR. Baltimore Co. *Catonsville.*
II Yr. Academic.

HAROLD WILSON DAIL. Cambridge. 3101 *N. Calvert St.*
III Yr. Academic.

JAMES HARRY PRESTON DALLAM. Laurel.
II Yr. Engineering. [S. A. T. C.] [2]

RICHARD DALLAM, JR. Belair. 1318 *Bolton St.*
I Yr. Electrical Engineering. [S. A. T. C.]

EDWIN FOLTZ DARNER. Hagerstown.
I Yr. Engineering. [S. A. T. C.] [2]

MORRIS HYMEN DASKAIS. Baltimore. 300 *S. Pulaski St.*
I Yr. Academic.

EDGAR STERLING DAUGHERTY. Crisfield. *University.*
III Yr. Mechanical Engineering. [S. A. T. C.]

JOSEPH MILLER DAVENPORT. Thomas, W. Va.
I Yr. Military Academic. [S. A. T. C.] [2]

CHARLES CLIFFORD DAVIS. Wilna. *University.*
I Yr. Mechanical Engineering. [S. A. T. C.]

HAMILTON CHACE DAVIS. Baltimore. 1701 *Park Av.*
III Yr. Academic. [S. A. T. C.]

ISADOR DECKELMAN. Baltimore. 1519 *E. Baltimore St.*
I Yr. Military Academic. [S. A. T. C.] [2]

MERVIN MONROE DEEMS. Baltimore. 152 *Wilson St.*
II Yr. Academic. [S. A. T. C.]

FRANCIS MARION DEFANDORF. Garrett Park. 2326 *N. Charles St.*
III Yr. Electrical Engineering. [S. A. T. C.]

FRANK C. DEHLER. Baltimore. 725 *E. 22d St.*
III Yr. (IV). Mechanical Engineering. [S. A. T. C.]

GEORGE LIPPS DEICHMANN, JR. Baltimore.
II Yr. Academic. *Park Heights Av. and Bancroft Pk.*

JOHN MACPHERSON DENNIS, JR. Baltimore Co. *Riderwood.*
I Yr. Academic.

ALLAN RHODES DIXON. Baltimore. 2309 *Avalon Av.*
I Yr. (II). Electrical Engineering. [S. A. T. C.]

FREDERICK WILLIAM DOERMANN. Washington, D. C.
I Yr. Academic.

EDWARD CYRIL DONOHOE. Greensburg, Pa. 2513 *N. Charles St.*
II Yr. Academic (Pre-Medical). [S. A. T. C.]

ROY MELVIN DORCUS. Woodsboro. 2629 *N. Calvert St.*
I Yr. Academic.

CYRUS L. DOUB. Braddock Heights. *University.*
IV Yr. Electrical Engineering. [S. A. T. C.]

JOHN GRAY DOUGLAS. Baltimore. 830 *W. North Av.*
II Yr. Academic (Biology).

FRANK JONES DOWNEY, JR. Sandy Spring. *University.*
II Yr. Chemical Engineering. [S. A. T. C.]

LAURAN PRESTON DOWNIN. Hagerstown. *University.*
I Yr. Mechanical Engineering. [S. A. T. C.]

WARREN MAYNARD DRIVER, JR. Balt. 336 *Rosebank Av., Govans.*
III Yr. Academic. [S. A. T. C.]

LEROY WORTHINGTON DROHAN. Baltimore. 1806 *Mosher St.*
I Yr. Military Academic. [S. A. T. C.] [2]

JOHN JULIUS DUBBELDE, JR. Baltimore. 726 *N. Howard St.*
I Yr. Electrical Engineering.

AUGUSTUS SMITH DUFFEY, JR. Towson.
I Yr. Military Academic. [S. A. T. C.] [2]

JAMES WILSON DUFFY. Baltimore Co. *Pikesville.*
I Yr. Chemical Engineering. [S. A. T. C.]

GARLAND HOMER DUNNINGTON. Roland Park. 200 *Riderwood Av.*
I Yr. Academic.

ALEXIUS FAHEY DYER. Glyndon.
I Yr. Military Academic. [S. A. T. C.] [2]

RICHARD TILGHMAN EARLE. Laurel.
III Yr. Electrical Engineering. [S. A. T. C.]

ARTHUR CASSELL EARP. Baltimore. 1727 *N. Carey St.*
I Yr. Engineering. [S. A. T. C.] [2]

JOHN SHELDON EASTLAND. Darien Center, N. Y. 2136 *N. Calvert St.*
II Yr. (III). Academic (Pre-Medical). [S. A. T. C.]

CAMERON DUNCAN EBAUGH. Baltimore. 515 *N. Gilmor St.*
I Yr. Academic.

KARL WILHELM EBELING. Roland Park. 329 *Hawthorne Rd.*
III Yr. (IV). Academic (Pre-Medical). [S. A. T. C.]

LEON EDELSON. Baltimore. 1 *Penn St.*
I Yr. (II). Civil Engineering. [S. A. T. C.]

MILLER EISEMAN. Baltimore. 2013 *Eutaw Pl.*
I Yr. Military Academic. [S. A. T. C.] [2]

LEONARD EISENBERG. Baltimore. *Linden Av. and Brooks La.*
I Yr. Engineering. [S. A. T. C.] [2]

WILLIAM LOTHAR EISERT. Baltimore. 912 *N. Gilmor St.*
III Yr. Mechanical Engineering. [S. A. T. C., Naval] [2]

NEILSON POE ELDER. Glyndon.
I Yr. Military Academic. [S. A. T. C.] [2]

FRANCIS ALVA ELLIS. Baltimore. 9 *E. Pleasant St.*
I Yr. Academic (Pre-Medical). [S. A. T. C.]

WINFIELD HENRY EMLET. Hanover, Pa. 2714 *Maryland Av.*
II Yr. Academic (Chemistry). [S. A. T. C.]

GILSON COLBY ENGEL. Baltimore. 3806 *Montgomery Av.*
I Yr. Academic (Pre-Medical).

LEON J. ENGEL. Baltimore. 2422 *Eutaw Pl.*
I Yr. Academic.

BENJAMIN ENGELMAN. Baltimore. 2023 *Madison Av.*
III Yr. Chemical Engineering. [S. A. T. C.]

FRANK GARRETTSON EVANS, JR. Baltimore. *Calvert Court Apts.*
I Yr. Mechanical Engineering. [S. A. T. C.]

GEORGE HEBERTON EVANS, JR. Baltimore. 919 *Cathedral St.*
III Yr. Academic. [S. A. T. C.]

WALTER VAUGHTON EVANS. Baltimore Co. *Towson.*
I Yr. Electrical Engineering. [S. A. T. C.]

AMOS VINCENT FAIMANN. East Brooklyn.
I Yr. Military Academic. [S. A. T. C.] [2]

JAMES FRANCIS FARMER. Baltimore. 838 *Aisquith St.*
I Yr. Engineering. [S. A. T. C.] [2]

ABRAHAM FEDDER. Baltimore. 2047 *Pennsylvania Av.*
I Yr. Chemical Engineering. [S. A. T. C.]

HARRY GERARDE FEIHE. Baltimore. 1915 *Homewood Av.*
I Yr. Chemical Engineering. [S. A. T. C.]

MORTON HARRY FELDMAN. Woodbine, N. J. 123 *N. Bdway.*
I Yr. Academic (Pre-Medical). [S. A. T. C.]

FRANK THOMAS FENNEMAN. Baltimore. 2112 *N. Fulton Av*
IV Yr. Academic. [S. A. T. C.]

EDMUND MORRIS FERGUSSON, JR. Baltimore. 2808 *Allendale Rd.*
I Yr. [S. A. T. C., Naval.] [2]

RICHARD LANE FIELD. Baltimore. 304 *Robert St.*
IV Yr. Academic. [S. A. T. C.]

ISIDOR SARON FINEMAN. Baltimore. 800 *Newington Av.*
I Yr. Academic.

ABRAHAM LEONARD FINESINGER. Oil City, Pa. 847 *N. Montford Av.*
I Yr. Academic.

SOL BARUCH FINESINGER. Oil City, Pa. 1713 *E. Eager St.*
I Yr. Academic.

ABRAHAM FINKELSTEIN. Baltimore. 305 *N. Exeter St.*
II Yr. Civil Engineering.

JOHN EDWIN FISSEL. Baltimore. 2035 *E. North Av.*
I Yr. Engineering. [S. A. T. C.] [2]

WILLIAM LEE FLAUGHER. Smithsburg. *University.*
I Yr. Engineering. [S. A. T. C.] [2]

FRANCIS MILLARD FOARD. Baltimore. 703 *N. Appleton St.*
III Yr. Academic.

JOSEPH PAUL FOLKOFF. Baltimore. 1129 *Bolton St.*
III Yr. Chemical Engineering. [S. A. T. C., Naval.]

ROBERT FONTZ. Mitchellville. 1001 *Russell St.*
I Yr. Chemical Engineering. [S. A. T. C.]

EDWARD LESTER FOOTE. Baltimore. 3821 *Ashburton Av.*
I Yr. Chemical Engineering. [S. A. T. C.]

WILLIAM RUSSELL FORTNEY. Baltimore. 3418 *Chestnut Av.*
I Yr. Academic. [S. A. T. C.]

REUBEN FOSTER. Baltimore. 23 *E. 22d St.*
II Yr. Academic. [S. A. T. C., Naval.]

EZEKIEL CHESTER FOX. Baltimore. 363 *N. Calvert St.*
II Yr. Academic. [S. A. T. C.]

ELI FRANK, JR. Baltimore. 1504 *Bolton St.*
I Yr. Academic.

ANDREW AARON FREEDMAN. Baltimore. 1'22 *Whitelock St.*
II Yr. Academic. [S. A. T. C., Naval.]

AARON FREEMAN. Baltimore. 1719 *N. Monroe St.*
I Yr. Chemical Engineering.

FREDERICK MAY WISE FRICK. Baltimore. 28 *W. Biddle St.*
I Yr. Electrical Engineering.

JOHN WILCOX FRISCH. Baltimore. 314 *Woodlawn Rd., R. P.*
IV Yr. Academic.

RICHARD BROWNE FULTON. Catonsville. 117 *Ingleside Av.*
I Yr. (II). Electrical Engineering. [S. A. T. C.]

HAROLD LANDRY FURST. Baltimore. 728 *Reservoir St.*
I Yr. Engineering. [S. A. T. C.] [2]

WILLIAM VALENTINE GALLAGHER, JR. Baltimore. 4212 *Penhurst Av.*
I Yr. Military Academic. [S. A. T. C.] [2]

THOMAS WHEELER GALLEHER. Baltimore. 2700 *N. Calvert St.*
I Yr. [S. A. T. C., Naval.] [2]

DONALD CLARY GAMMIE. Baltimore. *Clifton and Chelsea Avs.*
I Yr. Military Academic. [S. A. T. C.] [2]

*CLINTON GARDNER, JR. Buckeystown.
I Yr. Civil Engineering.

WILLIAM MASLIN GARDNER. Baltimore. 6 *W. Preston St.*
III Yr. Academic.

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* Died March 9, 1919.

KARL GEBBER. Baltimore. 2002 *E. Pratt St.*
I Yr. Chemical Engineering.

BERNARD SPROESSER GIBSON. Baltimore. 2009 *Eutaw Pl.*
I Yr. [S. A. T. C., Naval.] [2]

LEON MORRIS GINSBERG. Baltimore. 734 *W. North Av.*
IV Yr. Academic (Pre-Medical). [S. A. T. C.]

ARTHUR HAMILTON GLADMON. Baltimore. 338 *E. 25th St.*
I Yr. Military Academic. [S. A. T. C.] [2]

MORRIS GLASSMAN. Friendship, N. Y. *University.*
I Yr. Academic (Pre-Medical). [S. A. T. C.]

MAURICE GLICK. Baltimore. 2103 *McCulloh St.*
III Yr. Academic.

SAMUEL GLICK. Baltimore. 900 *Warner St.*
II Yr. Academic (Pre-Medical).

JOHN JACOB GMINDER. Baltimore. 607 *Lennox St.*
I Yr. [S. A. T. C., Naval.] [2]

GEORGE GOETZ. Baltimore. 2110 *E. Pratt St.*
I Yr. Academic (Pre-Medical). [S. A. T. C.]

LOUIS N. GOLDRING. Baltimore. 3026 *St. Paul St.*
I Yr. Electrical Engineering.

IRVING CHARLES GOLDSTEIN. Baltimore. 947 *Brooks La.*
I Yr. Chemical Engineering.

MORRIS HAROLD GOODMAN. Baltimore. 100 *W. West St.*
II Yr. Academic (Pre-Medical). [S. A. T. C.]

JAMES FLETCHER HENDERSON GORSUCH, JR. Fork.
I Yr. [S. A. T. C., Naval.] [2]

WILLIAM LAURENCE GOSNELL. Baltimore. 2509 *N. Charles St.*
I Yr. Engineering. [S. A. T. C.] [2]

PHILIP FREDERICK GOTTLING. Baltimore. 824 *Harlem Av.*
IV Yr. Electrical Engineering. [S. A. T. C.]

CLARENDON IVAN THEODORE GOULD, JR. Baltimore. 713 Park Av.
II Yr. (1). Academic. [S. A. T. C.]

CORYDON PALMER GOWMAN, JR. Mt. Airy. *University.*
III Yr. Academic. [S. A. T. C.]

IRVING BENJAMIN GRANDBERG. Baltimore. 2351 *Druid Hill Av.*
I Yr. Engineering. [S. A. T. C.] [2]

HENRY RAYNER GRANGER. Baltimore. 4001 *Liberty Hts. Av.*
I Yr. Engineering. [S. A. T. C.] [2]

THOMAS BROOKS GRAVE. Baltimore. 106 *Wyndhurst Av., R. P.*
I Yr. (IV). Academic (Chemistry).

HYMAN S. GREENSPUN. Baltimore. 2009 *E. Fairmount Av.*
I Yr. Academic (Pre-Medical).

LEON GREENWALD. Baltimore. 526 *N. Chester St.*
III Yr. (IV). Academic (Pre-Medical). [S. A. T. C.]

JOSEPH BENEDICT GRIESACKER. Baltimore. 1056 *W. Barre St.*
II Yr. (III). Academic. [S. A. T. C.]

BARTOW GRIFFISS. Baltimore. 1511 *Linden Av.*
III Yr. Academic. [S. A. T. C.]

HELDMAN JOSEPH GRINSFELDER. Baltimore. 2020 *Eutaw Pl.*
II Yr. Academic.

ARTHUR GROLLMAN. Baltimore. 2520 *McCulloh St.*
I Yr. (II). Academic.

HARRY GROLLMAN. Stevensville. 1214 *McElderry St.*
I Yr. Civil Engineering.

ALAN FRANK GUTTMACHER. Baltimore. *Marlborough Apts.*
IV Yr. Academic. [S. A. T. C.]

MANFRED S. GUTTMACHER. Baltimore. *Marlborough Apts.*
IV Yr. Academic. [S. A. T. C., Naval.]

ADOLPH CLARENCE HAHN. Baltimore. 2256 *Linden Av.*
I Yr. Military Academic. [S. A. T. C.] [2]

ROBERT CHARLES HALL. Riderwood. 3100 *N. Calvert St.*
I Yr. Mechanical Engineering. [S. A. T. C.]

JOSEPH HENRY HALLAM. Baltimore. 2411 *Woodbrook Av.*
I Yr. Mechanical Engineering. [S. A. T. C.]

JESSE MANN HALLE. Baltimore. 2222 *Callow Av.*
I Yr. Academic.

WILLIAM PINKNEY HAMMOND, JR. Baltimore Co. *Reisterstown.*
I Yr. Military Academic. [S. A. T. C.] [2]

MILTON LIVINGSTON HANCOCK. Snow Hill *University.*
IV Yr. Mechanical Engineering. [S. A. T. C., Naval.]

JAMES HEINLEIN HARRIS. Frederick. 2603 *N. Charles St.*
III Yr. Academic. [S. A. T. C.]

JOSEPH HARRIS. Baltimore. 1220 *McElderry St.*
III Yr. (IV). Academic (Pre-Medical).

GEORGE HARRISON. Baltimore. 3707 *Springdale Av.*
I Yr. Military Academic. [S. A. T. C.] [2]

STANLEY EDWARD HARTMAN. Baltimore. 1739 *W. North Av.*
II Yr. (I). Academic.

RAYMOND HOLDEN HASELTINE. Waterbury, Vt. *University.*
II Yr. Academic. [S. A. T. C.]

WILLIAM FRANCIS ASBURY HASSON. Baltimore. 156 *N. Milton Av.*
I Yr. Engineering. [S. A. T. C., Naval.] [2]

STEWART EMANUEL HECHT. Baltimore. 1616 *Eutaw Pl.*
IV Yr. Academic. [S. A. T. C.]

ROBERT GRAHAM HEINER. Baltimore. 209 *E. Biddle St.*
II Yr. Academic. [S. A. T. C.]

LOUIE WHEELER HENCK. Baltimore. *University.*
III Yr. Mechanical Engineering. [S. A. T. C.]

LOUIS PERCY HENNIGHAUSEN. Baltimore. 2119 *E. Pratt St.*
I Yr. Mechanical Engineering. [S. A. T. C.]

WILLIAM CULLEN HENRY. Stevensville. *University.*
I Yr. Mechanical Engineering. [S. A. T. C.]

HOWARD BAKER HENSEL. Roland Park. *Cabash Av.*
I Yr. Academic. [S. A. T. C.]

JOSEPH MARION HERMAN. Baltimore. 1701 *Madison Av.*
I Yr. Academic.

FRANCIS WILLIAM HERRING. Baltimore. 1820 *Mosher St.*
II Yr. (III). Mechanical Engineering.

JOHN ZACHARIAH HESKETT. Baltimore. 2681 *Wilkens Av.*
I Yr. Engineering. [S. A. T. C.] [2]

CHARLES WILLIAM HESS. Baltimore. 5600 *York Rd.*
II Yr. Electrical Engineering.

EMANUEL SALABES HESS. Baltimore. 1900 *Madison Av.*
I Yr. Academic. [S. A. T. C.]

MILTON LEONARD HETTLEMAN. Baltimore. 2012 *Brookfield Av.*
II Yr. Chemical Engineering.

HARRY CLEMENT HEUISLER, JR. Overlea. 418 *E. Pratt St.*
I Yr. Engineering. [S. A. T. C.] [2]

ROBERT WINBURN HICKS. Baltimore. 3409 *Beech Av.*
I Yr. [S. A. T. C., Naval.] [2]

JOHN LAWRENCE HILDEBRANDT. Catonsville. *Hilton & Idlewood Avs.*
I Yr. Electrical Engineering. [S. A. T. C.]

GEORGE JOSEPH HILL, JR. Cherrydale, Va. 709 *Newington Av.*
I Yr. Electrical Engineering.

PAUL CHRISTOPHER HINRICHS. Mt. Washington. *Elderslie Av.*
III Yr. Academic (Chemistry).

BOSLEY HISS. Baltimore. 1427 *Linden Av.*
I Yr. Academic. [S. A. T. C.]

ROBERT GILMOR HOFFMAN. Balt. 321 *Hawthorne Rd., R. P.*
IV Yr. (III). Mechanical Engineering.

JOHN EDWARD HOFFMEISTER. Baltimore. 2920 *Parkwood Av.*
III Yr. Academic (Chemistry).

NORMAN NORWOOD HOLLAND. Princess Anne. *University.*
III Yr. Electrical Engineering. [S. A. T. C.]

JAMES QUINTER HOLSOPPLE. New Windsor.
I Yr. Academic (Pre-Medical). [S. A. T. C.] [2]

ARTHUR UPSHUR HOOPER. Baltimore Co. *Mt. Washington.*
III Yr. (IV). Academic.

ELBERT CARSON HOOVER. Washington, D. C. 232 *E. 25th St.*
I Yr. Academic (Pre-Medical). [S. A. T. C.]

THOMAS FOY HUBBARD. Baltimore. 1001 *Riverside Av.*
I Yr. (II). Civil Engineering. [S. A. T. C.]

EDWARD GREENE HUEY. Baltimore Co. *Ruxton.*
I Yr. Academic. [S. A. T. C.]

ABRAHAM HURWITZ. Baltimore. 208 *N. Bond St.*
I Yr. (II). Electrical Engineering. [S. A. T. C.]

JAMES JESSE HURWITZ. Baltimore. 920 *Watson St.*
I Yr. [S. A. T. C., Naval.] [2]

CALVIN HYMAN. Baltimore. 1841 *N. Bond St.*
I Yr. Academic (Pre-Medical). [S. A. T. C.]

BERNARD SAMUEL ILLOWAY. New York, N. Y. 210 *E. 31st St.*
I Yr. Academic.

MARTIN LUTHER INGRAM. Funkstown.
I Yr. Engineering. [S. A. T. C.] [2]

ERIC JACOBSEN. Govans. *Pen Lucy Av.*
I Yr. Academic.

JAMES THOMAS JOHNSON, JR. Cumberland. *University.*
I Yr. Academic.

CHRISTOPHER JOHNSTON. Baltimore. 819 *N. Charles St.*
I Yr. Academic (Pre-Medical).

*JOHN RUSSELL JOHNSTON. Hagerstown.
IV Yr. Mechanical Engineering. [S. A. T. C., Naval.]

WALTER GORMAN JOHNSTON. Du Bois, Pa. 2704 *St. Paul St.*
I Yr. Academic. [S. A. T. C.]

LLOYD EDWARD JOHNSTON. Crisfield. *University.*
III Yr. Mechanical Engineering.

ELMER JAMES JONES. Baltimore. 2014 *Edgewood Av.*
II Yr. Academic. [S. A. T. C., Naval.]

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* Died December 20, 1918.

JOHN MELBOURNE JONES. Baltimore Co. *Towson.*
II Yr. Chemical Engineering. [S. A. T. C.]

RHODERICK SUGG JOYNER. Farmville, N. C.
I Yr. [S. A. T. C., Naval.] [2]

FRED KAIRYS. Baltimore. 1223 *Pennsylvania Av.*
I Yr. Academic. [S. A. T. C.]

BERNARD KAPLAN. Hagerstown. *University.*
III Yr. Mechanical Engineering. [S. A. T. C.]

CHESTER HERBERT KATENKAMP. Baltimore. 1122 *N. Stricker St.*
I Yr. Engineering. [S. A. T. C.] [2]

FRANK SIGMUND KATZ. Baltimore. *Linden Av. and Brooks La.*
I Yr. Academic.

LESTER S. KAUFFMAN. Denton. 2326 *N. Charles St.*
III Yr. Mechanical Engineering. [S. A. T. C., Naval.]

CLARENCE E. KEEFER. Baltimore. 235 *N. Stricker St.*
IV Yr. Civil Engineering.

GEORGE WASHINGTON KEEN. Baltimore Co. *Colgate.*
I Yr. (II). Mechanical Engineering. [S. A. T. C.]

LEWIS BENNETT KELLUM. Baltimore. 1012 *N. Arlington Av.*
IV Yr. Academic.

BASCOM KING KENNADY. Baltimore. 734 *N. Carrollton Av.*
II Yr. Academic. [S. A. T. C.]

THEODORE EDWARD KESTING. Baltimore. 2872 *Harford Av.*
I Yr. (II). Civil Engineering. [S. A. T. C.]

NORMAN CHASE KEYES. Baltimore. 824 *Hamilton Terr.*
II Yr. Academic. [S. A. T. C.]

WILLIAM CHARLES KIDD. Baltimore. 700 *Homestead St.*
I Yr. Engineering. [S. A. T. C.] [2]

TYLER BAINBRIDGE KIENER. Baltimore. 3028 *St. Paul St.*
I Yr. Engineering. [S. A. T. C.] [2]

EDWARD STAUFFER KING. Baltimore. 1243 *Mt. Royal Av.*
I Yr. Academic (Chemistry). [S. A. T. C.]

HARRIS ELLIOTT KIRK, JR. Baltimore. 502 *Cathedral St.*
IV Yr. Academic. [S. A. T. C.]

LOUIS H. KLASS. Baltimore. 1315 *E. Baltimore St.*
II Yr. Civil Engineering. [S. A. T. C.]

JOSEPH SWINNEY KNAPP, JR. Baltimore. 713 *Homestead St.*
I Yr. Military Academic. [S. A. T. C.] [2]

ANDREW HENRY KNECHT. Baltimore Co. *Lauraville.*
I Yr. Civil Engineering. [S. A. T. C.]

ROBERT LUTHER KOLLMEYER. Baltimore. 3509 *Powhatan Av.*
I Yr. [S. A. T. C., Naval.] [2]

AMOS ANDREW KORB. Baltimore. 1405 *Ramsay St.*
I Yr. Military Academic. [S. A. T. C.] [2]

PHILIP KRIEGEL. Baltimore. 2503 *McCulloh St.*
III Yr. (IV). Academic (Chemistry). [S. A. T. C.]

BERNHARD KURRELMEYER. Baltimore. 2120 *Maryland Av.*
I Yr. Chemical Engineering.

GEORGE LAOHMAN. Baltimore. 1412 *Laurens St.*
III Yr. (IV). Academic (Pre-Medical). [S. A. T. C.]

SANDER EDWIN LACHMAN. Baltimore. 1412 *Laurens St.*
I Yr. Academic (Pre-Medical). [S. A. T. C.]

PAUL EDWARD LAFERTY. Baltimore. 2303 *Roslyn Av.*
I Yr. Engineering. [S. A. T. C.] [2]

ALBERT GEORGE LANGELUTTIG, JR. Baltimore. 1926 *Linden Av.*
I Yr. Academic (History).

ARTHUR HOLZMAN LAUPHEIMER. Baltimore. 1701 *Madison Av.*
I Yr. Academic.

CHARLES TUDOR LEBER. Baltimore. 153 *W. Lafayette Av.*
III Yr. Academic.

HENRY ANDREW LEDERER, JR. Baltimore. 1921 *Eutaw Pl.*
II Yr. (I). Academic.

WILLARD MALTIER LEE. Baltimore. 819 *N. Howard St.*
I Yr. Engineering. [S. A. T. C.] [2]

VERNON LEISURE. Swayzee, Ind.
I Yr. Military Academic. [S. A. T. C.] [2]

ROBERT EDGAR LEITER. Baltimore. 3632 *Elm Av.*
I Yr. Military Academic. [S. A. T. C.] [2]

ROBERT SULLIVAN LELAND. Baltimore. 1811 *Hope St.*
I Yr. Engineering. [S. A. T. C.] [2]

GEORGE ALVIN LENTZ. Baltimore. 1241 *Battery Av.*
I Yr. Engineering. [S. A. T. C.] [2]

CHARLES EDWARD LENZ, JR. Baltimore. 1128 *W. North Av.*
I Yr. Military Academic. [S. A. T. C.] [2]

CHARLES CARROLL FULTON LESER. Baltimore. 7 *W. Biddle St.*
I Yr. Academic. [S. A. T. C.]

FRANK LEVIN. Baltimore. 2318 *Fairmount Av.*
III Yr. Civil Engineering.

MAX LEVIN. Baltimore. 2223 *Mondawmin Av.*
III Yr. Academic (Chemistry).

ABRAHAM JOSEPH LEVITAN. Baltimore. 124 *N. Fremont St.*
II Yr. Academic. [S. A. T. C.]

ABRAHAM ZABDIEL LEVY. Baltimore. 1411 *Madison Av.*
I Yr. Engineering. [S. A. T. C., Naval.] [2]

NATHAN BERNARD LEVY. Baltimore. 1732 *E. Fayette St.*
I Yr. Military Academic. [S. A. T. C.] [2]

RAPHAEL LEVY. Baltimore. 906 *Newington Av.*
II Yr. (III). Academic.

JOHN HENRY LEWIN. Parkton. 3100 *N. Calvert St.*
III Yr. Academic. [S. A. T. C.]

FRANK HAROLD LEWIS. Baltimore. 2323 *Pennsylvania Av.*
I Yr. Academic. [S. A. T. C.] [2]

KENNETH VANDERSMITH LIBHART. Baltimore. 1701 *E. Lafayette Av.*
I Yr. Engineering. [S. A. T. C.] [2]

JOSEPH LICHTENBERG. Baltimore. 2219 *Eutaw Pl.*
I Yr. [S. A. T. C., Naval.] [2]

CLARENCE LIPPEL. Cumberland.
I Yr. Military Academic. [S. A. T. C.] [2]

GEORGE DEWEY LIPPY. Greenmount. 1636 *Appleton St.*
II Yr. Academic (Pre-Medical). [S. A. T. C.]

FREDERICK WIESSNER LIPPS. Baltimore Co. *Catonsville.*
I Yr. Academic.

LAWRENCE LITTMAN. Baltimore. 2310 *Edgemont Av.*
III Yr. Electrical Enginering. [S. A. T. C.]

EVAN DEWITT LLEWELYN. Baltimore. 1731 *N. Milton Av.*
I Yr. Military Academic. [S. A. T. C.] [2]

YUNG JAO LOE. Tientsien, China. 1 *W. 27th St.*
I Yr. Academic.

JAMES ROSARIO LOMAURO. Passaic, N. J. 3035 *Guilford Av.*
II Yr. (III). Academic (Pre-Medical). [S. A. T. C.]

STEWART DAVIS LONG. Laurel. *University.*
I Yr. Civil Engineering.

LLEWELLYN WILLIAMS LORD. Baltimore. 1011 *N. Charles St.*
II Yr. Academic (Pre-Medical).

KWANG LAI LOU. Chekiang, China. 2625 *Maryland Av.*
I Yr. (III). Academic.

STORROW GORDON LOVELL. Roland Park. 3 *Midvale Rd.*
I Yr. Academic. [S. A. T. C., Naval.]

MALCOLM WIESENFELD LOWENSTEIN. Baltimore. 2357 *Eutaw Pl.*
I Yr. Military Academic. [S. A. T. C.] [2]

DANIEL ABRAHAM LOWENTHAL. Baltimore. *The Marlborough*
I Yr. Military Academic. [S. A. T. C.] [2]

BERNARD LUTZKY. Baltimore. 3422 *Pk. Heights Av.*
I Yr. Engineering. [S. A. T. C., Naval.] [2]

WALTER AUBREY MACCUBBIN. Baltimore. 1624 *E. Preston St.*
II Yr. (III). Mechanical Engineering. [S. A. T. C.]

CHARLES EDWARD MACFARLANE. Baltimore. 2324 *Callow Av.*
III Yr. Chemical Engineering. [S. A. T. C.]

LOUIS MACHT. Baltimore. 1716 *N. Fulton Av.*
II Yr. Academic. [S. A. T. C.]

MAURICE MAHR. Baltimore. 2103 *E. Baltimore St.*
I Yr. [S. A. T. C., Naval.] [2]

WILLIAM CASSELL MALLALIEU. Baltimore. 2517 *Barclay St.*
III Yr. Academic. [S. A. T. C.]

JOHN ALEXANDER MARCUSE. Richmond, Va. 2112 *N. Charles St.*
II Yr. Academic. [S. A. T. C.]

JOHN USHER MARKELL, JR. Frederick. 3100 *N. Calvert St.*
I Yr. Mechanical Engineering. [S. A. T. C.]

EDWIN JEFFERSON MARTENET. Baltimore. 4100 *Riderwood Av.*
I Yr. Military Academic. [S. A. T. C.] [2]

ISIDORE MASERITZ. Baltimore. 1202 *Pennsylvania Av.*
I Yr. Military Academic. [S. A. T. C.] [2]

IRWIN MAYER. Baltimore. 2237 *Brookfield Av.*
I Yr. Engineering. [S. A. T. C.] [2]

ALPHONSO AVERY MCBEE. Roland Park. 5 *Club Rd.*
I Yr. Military Academic. [S. A. T. C.] [2]

WILLIAM LYTTLETON MCCAGHEY. Baltimore. 2948 *Clifton Av.*
I Yr. Engineering. [S. A. T. C., Naval.] [2]

MILTON HAYWARD MCCAULEY. Baltimore. 1011 *Warren St.*
I Yr. Military Academic. [S. A. T. C.] [2]

OSCAR WOOD MCCLEARY. Baltimore. 3365 *Chestnut Av.*
III Yr. Academic. [S. A. T. C.]

JAMES ANDERSON MCCOMAS. Baltimore. 1610 *N. Caroline St.*
I Yr. Chemical Engineering. [S. A. T. C.]

THOMAS KING MCCUBBIN. Baltimore. 2724 *St. Paul St.*
I Yr. Mechanical Engineering.

W. EDWARD MCGINNIS. Baltimore. 2338 *Druid Hill Av.*
I Yr. (III). Mechanical Engineering (Special).

FRED. WILLIAM MEISER. Baltimore. 1914 *W. Baltimore St.*
I Yr. Chemical Engineering.

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SAMUEL PEREIRA MENDES. New York City. 3044 *Guilford Av.*
I Yr. (II). Academic (Pre-Medical). [S. A. T. C.]

WILLIAM LEE MERRIKEN. Roland Park. *Belvedere Av.*
III Yr. Academic. [S. A. T. C.]

HAROLD HOLT MERSEREAU. Brooklyn, N. Y. 722 *Reservoir St.*
III Yr. Academic (Pre-Medical).

SAMUEL SHERWOOD MESSICK. Cordova.
I Yr. Military Academic. [S. A. T. C.] [2]

ALBERT FRANKLIN METZGER. W. Arlington. 3922 *Lloyd Av.*
I Yr. Chemical Engineering. [S. A. T. C.]

JOSEPH JOHN MEYER. Baltimore. 527 *S. Monroe St.*
I Yr. Military Academic. [S. A. T. C.] [2]

FERDINAND MEYER. Baltimore. 5 *Beechdale Rd., R. P.*
III Yr. Academic.

JOSEPH MEYERHOFF. Baltimore. 2311 *Druid Hill Av.*
I Yr. Engineering. [S. A. T. C.] [2]

MAURICE ADLER MICHEL. Baltimore. 1117 *N. Charles St.*
I Yr. Engineering. [S. A. T. C.] [2]

LOUIS DAVID MILASKY. Baltimore. 2022 *Christian St.*
II Yr. Academic (Pre-Medical). [S. A. T. C.]

LEWIS WATERS MILBOURNE. Baltimore. 220 *E. North Av.*
I Yr. Academic.

HENRY S. MILLER. Baltimore. *Esplanade Apts.*
IV Yr. Academic. [S. A. T. C.]

JACOB EDWARD MILLER. Baltimore. 408 *N. Milton Av.*
II Yr. (I). Engineering. [S. A. T. C.]

LEO DANIEL BISER MILLER. Boonsboro. 2526 *Maryland Av.*
II Yr. Chemical Engineering.

NEIL MILLIKIN. Hamilton, O. 300 *E 31st St.*
I Yr. Academic (Pre-Medical).

MAX MORTON MILLMAN. Baltimore. 1006 *Low St.*
I Yr. Engineering. [S. A. T. C.] [2]

DANIEL DONNELLY MOORE. Roland Park. 603 *Univ. Pkway.*
I Yr. [S. A. T. C., Naval.] [2]

WILLIAM HANSON MOORE, JR. Baltimore. 3715 *Old York Rd.*
I Yr. Chemical Engineering. [S. A. T. C.]

GEORGE RUSKIN MOORE. Baltimore. 106 *Augusta Av.*
I Yr. Engineering. [S. A. T. C.] [2]

LOUIS MORIARTY. S. Manchester, Conn. 1121 *Madison Av.*
II Yr. Academic. [S. A. T. C., Naval.]

EDWARD A. MORRIS. Baltimore. 4411 *Reisterstown Rd.*
I Yr. Military Academic. [S. A. T. C.] [2]

HENRY HAYES MORRISS. Baltimore. 1904 *Mt. Royal Terr.*
II Yr. Academic. [S. A. T. C., Naval.]

DONALD STUART MOSSOM. Baltimore. 103 *W. Saratoga St.*
II Yr. Academic. [S. A. T. C.]

HOWELL BOSLEY MULLIKIN. Baltimore. 1401 *W. Lanvale St.*
I Yr. Engineering. [S. A. T. C.] [2]

JAMES CLAYLAND MULLIKIN, JR. Easton. 2727 *Maryland Av.*
I Yr. Academic.

KENT ROBERTS MULLIKIN. Collington. 2932 *St. Paul St.*
II Yr. Chemical Engineering. [S. A. T. C.]

LAWRENCE DIXON MURPHY. Washington, D. C. 3014 *N. Calvert St.*
I Yr. (III). Academic (Pre-Medical).

EDWIN EMORY MURRAY. Baltimore. 3505 *Powhatan Av.*
III Yr. Chemical Engineering.

GERARD JOSEPH MUTH. Baltimore Co. *Catonsville.*
I Yr. Mechanical Engineering.

ROBERT C. MUTH. Baltimore. 309 *N. Carey St.*
I Yr. Mechanical Engineering.

WILLIS ADELBERT MYERS. Baltimore. 3412 *Auchentoroly Ter.*
II Yr. Academic. [S. A. T. C.]

JOSEPH ABRAHAM NAVIASKY. Baltimore. 1508 *Pennsylvania Av.*
I Yr. Chemical Engineering.

JOHN MARSHALL NEEL. Baltimore. 1923 *Linden Av.*
I Yr. Military Academic. [S. A. T. C.] [2]

HERBERT EUTAW NEIGHBOURS. Lewiston.
I Yr. Engineering. [S. A. T. C.] [2]

WILLIAM BURROWS NELSON, JR. Belair. *University.*
II Yr. (I). Mechanical Engineering. [S. A. T. C.] [2]

GEORGE FLOYD NESBITT, JR. Ashton. 1 *W. 27th St.*
II Yr. (I). Mechanical Engineering. [S. A. T. C.]

HAROLD M. NESS. Baltimore. 3200 *Auchentoroly Ter.*
I Yr. Military Academic. [S. A. T. C.] [2]

FERDINAND NEUBERGER. Baltimore. 1725 *Linden Av.*
I Yr. Academic. [S. A. T. C., Naval.] [2]

SEYMOUR NEUBERGER. Baltimore. 1725 *Linden Av.*
III Yr. Academic. [S. A. T. C., Naval.]

WILLIAM K. NICHOLSON. Baltimore. 545 *N. Pulaski St.*
I Yr. (II). Mechanical Engineering.

ROBERT FULTON NICODEMUS. Frederick Co. 2603 *N. Charles St.*
II Yr. (I). Mechanical Engineering.

HENRY DARLING NILES. Baltimore. 1214 *N. Caroline St.*
II Yr. Academic (Biology).

HENRY EDWARD NILES. Baltimore, 2010 *Edgewood St*
II Yr. Academic. [S. A. T. C.]

EDWARD TAYLOR NORRIS. Baltimore. 1203 *N. Charles St.*
II Yr. Academic. [S. A. T. C.]

VERNON HYATT NORWOOD. Baltimore. *Windsor Hills.*
I Yr. Academic (Pre-Medical). [S. A. T. C.]

WILLIAM KNIGHT NORWOOD. Baltimore. *Windsor Hills*
III Yr. Academic. [S. A. T. C.]

MAX ALEXANDER NOVEY. Baltimore. 939 *W. Baltimore St.*
III Yr. (IV). Academic (Pre-Medical).

LAWRENCE FRANCIS OBRIST. Hagerstown. *University.*
II Yr. Mechanical Engineering. [S. A. T. C.]

FREDERICK ARTHUR OEHM. Baltimore. 2155 *Chelsea Ter.*
I Yr. Engineering. [S. A. T. C.] [2]

WILLIAM JOSEPHUS OGLEBAY. Cumberland. 1822 *Barclay St.*
I Yr. Electrical Engineering.

JOHN O'KEEFE. Baltimore. 1228 *Oakhurst Pl.*
I Yr. Academic. [S. A. T. C.]

WILLIAM DAVID O'KEEFE. Baltimore. 3353 *Frederick Av.*
I Yr. Engineering. [S. A. T. C.] [2]

STEPHEN WILLIAMS ORNE, JR. Baltimore. 2011 *Bolton St.*
III Yr. Chemical Engineering.

EZRA CLAUDE OURSLER. Baltimore. 801 *E. Eager St.*
I Yr. Military Academic. [S. A. T. C.] [2]

LLOYD OVERBECK. Baltimore. 1227 *N. Caroline St.*
I Yr. Academic. [S. A. T. C.]

DONALD HOLLIDAY OWENS. Baltimore. 4503 *Liberty Hts. Av.*
I Yr. Engineering. [S. A. T. C.] [2]

ROBERT EDWARD OWINGS. Baltimore. 1733 *Linden Av.*
I Yr. Academic (Pre-Medical). [S. A. T. C.]

JOHN PHILEMON PACA, V. Baltimore. 1625 *St. Paul St.*
I Yr. Military Academic. [S. A. A. C.] [2]

EDMUND ROBERT PAIGE. Baltimore. 3204 *Clifton Av.*
III Yr. Mechanical Engineering.

ALBERT DEAN PARELHOFF. Baltimore. 2510 *Madison Av.*
I Yr. [S. A. T. C., Naval.] [2]

RICHARD ALEXANDER PARKER. Baltimore. 1633 *W. North Av.*
II Yr. Academic. [S. A. T. C.]

FREDERICK HERMAN PARKS. Baltimore Co. *Timonium.*
I Yr. Mechanical Engineering.

ROBERT W. PARKS. Reisterstown.
I Yr. Military Academic. [S. A. T. C.] [2]

CHARLES HOWARD PARRISH, JR. Baltimore. 3516 *Clifton Av.*
I Yr. Academic. [S. A. T. C.]

PAUL S. PARSONS. Baltimore. 917 *St. Paul St.*
I Yr. Academic.

FRANK FURNIVAL PEARD, JR. Baltimore. 3507 *N. Charles St.*
I Yr. Academic. [S. A. T. C., Naval.]

JOSEPH PROFFITT PEERY. Belair.
I Yr. Military Academic. [S. A. T. C.] [2]

FRANCIS EDWARD PEGRAM, JR. Baltimore. 1312 *Bolton St.*
II Yr. (I). Academic.

CLARENCE WARWICK PERKINS, JR. Baltimore. 4440 *Reisterstown Rd.*
II Yr. Academic. [S. A. T. C.]

WILLIAM HENRY PERKINS, 3rd. Baltimore. 1325 *Eutaw Pl.*
I Yr. Civil Engineering.

LESTER NEWTON PHILLIPY. Govans. 506 *Harwood Av.*
I Yr. (III). Civil Engineering. [S. A. T. C.]

EDWARD MORSE PICKFORD. Washington, D. C. *University.*
I Yr. Academic (Pre-Medical). [S. A. T. C.]

HENRY ALBERT PLISETSKY. Baltimore. 520 *S. Sharp St.*
I Yr. (II). Chemical Engineering. [S. A. T. C.]

JAMES FRANCIS PORTER. Cumberland. 1921 *Guilford Av.*
I Yr. Electrical Engineering. [S. A. T. C.]

LEWIS CRAMER POWELL. Woodsboro.
I Yr. Engineering. [S. A. T. C.] [2]

SAMUEL RABINOVICH. Baltimore. 15 *N. Broadway*
I Yr. Military Acdaemic. [S. A. T. C.] [2]

DANIEL GILBERT RAFFEL. Baltimore. *Emersonian Apts.*
I Yr. Military Acdaemic. [S. A. T. C.] [2]

ROBERT MORRIS RAITH. Baltimore. 2806 *Pennsylvania Av.*
I Yr. Military Acdaemic. [S. A. T. C.] [2]

NELSON HAMILTON RECTOR. Rectortown, Va. 2719 *St. Paul St.*
II Yr. Civil Engineering. [S. A. T. C.]

JAMES ROBINSON REED. Baltimore. 29 *W. North Av.*
I Yr. (II). Civil Engineering. [S. A. T. C.]

HERBERT EILERT REIFSCHNEIDER. Baltimore. 3508 ***Bank St.***
I Yr. Academic

WILLIAM EDMUNDS REINS. Baltimore. 1620 ***John St.***
II Yr. Civil Engineering. [S. A. T. C.]

HUGO RASIN RENNERT. Philadelphia, Pa.
I Yr. Military Academic. [S. A. T. C.] [2]

WILLIAM WALLACE RHYNHART. Baltimore. 1610 ***Ellamont St.***
I Yr. [S. A. T. C., Naval.] [2]

WILLIS JENKINS RICHARDSON. Martinsville, Va. ***The Homewood.***
I Yr. (III). Academic (Pre-Medical). [S. A. T. C.]

HORATIO RIDOUT. Annapolis. 1910 ***Park Av.***
I Yr. Electrical Engineering.

JOHN HUTTON RIGGS. Baltimore. 1303 ***Bolton St.***
I Yr. Academic.

SAMUEL RING. Baltimore. 1027 ***W. Fayette St.***
I Yr. [S. A. T. C.] [2]

WILLIAM TOWNSEND RITTER. Baltimore Co. ***Woodlawn.***
I Yr. Academic (Pre-Medical). [S. A. T. C.]

SAMPSON RIVKIN. Baltimore. 1809 ***E. Baltimore St.***
III Yr. (IV). Academic.

ORRIS GRAUENOR ROBINSON. Baltimore. 2875 ***W. Lafayette Av.***
I Yr. Academic (History).

CORNELIUS ROE. Baltimore. 712 ***N. Fremont Av.***
I Yr. Engineering. [S. A. T. C., Naval.] [2]

HENRY BEALE ROLLINS. Baltimore. 606 ***W. Barre St.***
I Yr. Military Academic. [S. A. T. C.] [2]

HYMAN PAUL ROME. Bladensburg.
I Yr. [S. A. T. C., Naval.] [2]

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I Yr. Military Academic. [S. A. T. C.] [2]

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II Yr. Academic. [S. A. T. C.]

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III Yr. (IV). Mechanical Engineering. [S. A. T. C. Naval.]

DAVID THEODORE ROSENTHAL. Baltimore. 2005 ***Wilkens Av.***
I Yr. (II). Chemical Engineering.

DAVID STANLEY ROSKES. Baltimore. 104 ***Albemarle St.***
I Yr. Mechanical Engineering. [S. A. T. C.]

ARTHUR EDWARD RUARK. Govans. 6010 ***Henderson Av.***
I Yr. Civil Engineering. [S. A. T. C.]

ARTHUR CHARLES RUBENSTEIN. Baltimore. *Sheffield Apts.*
I Yr. Chemical Engineering.

WALTER RUPP. Baltimore. 1605 *N. Bond St.*
I Yr. (II). Civil Engineering. [S. A. T. C.]

HOWARD PLITT SADTLER, JR. Baltimore Co. *Timonium.*
II Yr. Academic. [S. A. T. C.]

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I Yr. Military Academic. [S. A. T. C.] [2]

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III Yr. Academic (Pre-Medical).

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I Yr. (II). Civil Engineering. [S. A. T. C.]

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I Yr. Chemical Engineering.

CARL WALTER SCHMIDT. Baltimore. 1718 *Light St.*
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I Yr. Military Academic. [S. A. T. C.] [2]

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HENRY HOLLINGSWORTH STARTZMAN. Baltimore. 2011 *Longwood St.*
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II Yr. Academic (History). [S. A. T. C.] *Lake View Av.*

EDWARD EVERETT STEINER, JR. Baltimore. 501 *N. Fulton Av.*
I Yr. Civil Engineering. [S. A. T. C.]

EDWARD BRADLEY STELLMAN. Baltimore. *The Severn Apts.*
I Yr. Civil Engineering. [S. A. T. C.]

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III Yr. Academic. [S. A. T. C.]

LEROY VICTOR STRASBURGER. Baltimore. 632 *Linwood Av.*
II Yr. Chemical Engineering.

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I Yr. (II). Academic (History).

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III Yr. Mechanical Engineering. [S. A. T. C.]

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EDWARD SWARTZ. Baltimore. 2205 *Callow Av.*
I Yr. [S. A. T. C., Naval.] [2]

FRANK MCKIM SWARTZ. Baltimore. *Windsor Park.*
II Yr. Academic. [S. A. T. C.]

HARRY BERKLEY SWARTZ, JR. Baltimore. 1309 *N. Fulton Av.*
I Yr. Engineering. [S. A. T. C.] [2]

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III Yr. (IV). Civil Engineering. [S. A. T. C., Naval.]

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II Yr. Electrical Engineering. [S. A. T. C.] 1524 *Bolton St.*

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III Yr. Academic (Chemistry). [S. A. T. C.]

VICTOR GERALD TEDERS. Baltimore. 2902 *Winchester St.*
II Yr. Electrical Engineering. [S. A. T. C.]

OSCAR FRANK THAU. Hanover, Pa. 1725 *Guilford Av.*
I Yr. Chemical Engineering. [S. A. T. C.]

ROSZEL CATHCART THOMSEN. Roland Park. 4 *Midvale Rd.*
IV Yr. Academic. [S. A. T. C.]

NATHANIEL STARBACK THOMPSON. Jackson, Mich. 708 *St. Paul St.*
I Yr. (III). Academic (Biology—Special).

WALTER THOMPSON TIBBETS. Howard Co. *Ellicott City.*
II Yr. Chemical Engineering.

PAUL EVERETT TIGNOR. Nanticoke. *University.*
III Yr. (II). Mechanical Engineering. [S. A. T. C., Naval.]

RICHARD ETHEREDGE TOME. Baltimore. 2437 *N. Charles St.*
I Yr. Academic. [S. A. T. C., Naval]

FREDERICK FAIRCHILD TORSCH. Baltimore. *University.*
II Yr. (III). Mechanical Engineering. [S. A. T. C.]

FRANCIS HOWARD TOWNSEND, JR. Baltimore. 1947 *Mosher St.*
III Yr. Mechanical Engineering.

BARTUS TREW. Baltimore. 127 *W. Lafayette Av.*
II Yr. Academic. [S. A. T. C.]

BENJAMIN THOMAS TRUITT, JR. Snow Hill. 1429 *Bolton St.*
IV Yr. Electrical Engineering. [S. A. T. C.]

JAMES LEROY TULL. Annapolis. 1429 *Bolton St.*
IV Yr. Academic (Political Economy).

GEORGE DEWITT FOOKS TRUITT. Snow Hill. 1429 *Bolton St.*
I Yr. Electrical Engineering.

DONALD LEROY TURNER. Glyndon.
I Yr. Military Academic. [S. A. T. C.] [2]

FRANK RAY TUTTLE. Baltimore. 2104 *Longwood St.*
I Yr. Engineering. [S. A. T. C., Naval.] [2]

FRANCIS HAMMOND URNER. Frederick.
I Yr. Academic.

ADOLPH POLLAND VANDERMAST. Baltimore Co. *Colgate.*
IV Yr. Academic (Political Economy).

BARTOW VAN NESS, JR. Baltimore. 823 *Park Av.*
II Yr. Electrical Engineering. [S. A. T. C.]

EUGENE ELDERDICE VEASEY. Pocomoke City. *Bancroft Rd.*
I Yr. Electrical Engineering.

JAMES KENNEDY VICKERS, JR. Roland Park. 302 *Woodlawn Rd.*
III Yr. (IV). Civil Engineering. [S. A. T. C.]

JAMES LEONARD VICKERS. Huntington, W. Va. 2326 *N. Charles St.*
III Yr. Academic (Pre-Medical).

GUILFORD WILLIAM VOGT. Baltimore. 1018 *E. Preston St.*
I Yr. Engineering. [S. A. T. C.] [2]

NATHAN VOLOSHEN. Baltimore. 2219 *Eutaw Pl.*
I Yr. [S. A. T. C., Naval.] [2]

GEORGE WARREN WAGNER. Baltimore. 3038 *St. Paul St.*
III Yr. Academic.

LAWRENCE KALMAY WAGNER. Baltimore. 3038 *St. Paul St.*
I Yr. Academic. [S. A. T. C., Naval.]

PHILIP WAGNER. Baltimore Co. 3219 *O'Donnell St.*
I Yr. Civil Engineering. [S. A. T. C.] [2]

CARROLL WASHINGTON WALDEN. Mount Washington.
I Yr. Military Academic. [S. A. T. C.] [2]

FREDERICK PARKER WALDEN. Baltimore Co. *Raspeburg.*
I Yr. (II). Mechanical Engineering.

JONATHAN LUTHER WALKER. Baltimore. *Homewood Apts.*
I Yr. Academic.

ERNEST WILLIAM WALTER. Baltimore. 2214 *E. Chase St.*
I Yr. Engineering. [S. A. T. C.] [2]

WILBUR FRANCE WARD, JR. Baltimore. 4210 *Maine Av.*
I Yr. (II). Civil Engineering.

C. LESTER WARNICK. Cumberland. 3102 *N. Calvert St.*
I Yr. Engineering. [S. A. T. C., Naval.] [2]

ROBERT DORSEY WATKINS. Baltimore. 2219 *St. Paul St.*
I Yr. Academic (Political Economy).

CLINTON CARROLL WATERS. Germantown. 2932 *St. Paul St.*
II Yr. (I). Academic. [S. A. T. C., Naval.]

NOBLE WATKINS. Howard Co. *Ellicott City.*
I Yr. Electrical Engineering. [S. A. T. C.]

CHARLES ALBERT WEBB. Baltimore. *Sudbrook Park*
II Yr. Academic. [S. A. T. C.]

ELMORE MILLER WEBB. Towson. *Walker Av.*
I Yr. Academic (Pre-Medical). [S. A. T. C.]

HERBERT CASSARD WEBB. Baltimore. *Sudbrook Park.*
I Yr. Civil Engineering. [S. A. T. C.]

HARRY EDWARD WEAVER. Baltimore. *Harford Av. Ext.*
III Yr. Mechanical Engineering. [S. A. T. C., Naval.]

ROBERT BALDWIN WEECH. Govans. 5212 *York Rd.*
I Yr. Military Academic. [S. A. T. C.] [2]

LOUIS WEIL. Baltimore. 2410 *Druid Hill Av.*
I Yr. Mechanical Engineering. [S. A. T. C.]

JAMES ARTHUR WEINBERG. Lonaconing. 2503 *Maryland Av.*
I Yr. (II). Academic (Pre-Medical).

HARRY WEINTRAUB. Baltimore. 1730 *E. Fayette St.*
I Yr. Academic.

HENRY WEISBERG. Baltimore. 1108 *E. Pratt St.*
I Yr. (II). Civil Engineering.

HARRY C. WEISKITTEL, JR. Baltimore. 3022 *St. Paul St.*
I Yr. (III). Academic. [S. A. T. C., Naval.]

MELVIN LOUIS WELKE. Baltimore. 1934 *Hollins St.*
I Yr. Civil Engineering. [S. A. T. C.]

EDWARD MORRISON WELLIVER. Rockville.
II Yr. Academic. [S. A. T. C., Naval.]

CLIFTON K. WELLS, JR. Baltimore. 2919 *Guilford Av.*
II Yr. Military Academic. [S. A. T. C.] [2]

JOSEPH BRENT WELLS. Baltimore. 2931 *St. Paul St.*
I Yr. Civil Engineering.

LESTER ALLEN WELLS. Baltimore. 2121 *W. Lexington St.*
I Yr. Chemical Engineering. [S. A. T. C.] [2]

JAMES POLLARD WHARTON. Baltimore. 1307 *Linden Av.*
III Yr. (II). Academic. [S. A. T. C., Naval.]

HERBERT EVANS WHITE. Baltimore. 806 *W. 37th St.*
I Yr. Engineering. [S. A. T. C.] [2]

ROBERT J. R. WHITTINGTON. Baltimore. 608 *Homestead St.*
I Yr. Civil Engineering.

SAMUEL WIGODNER. Baltimore. 1721 *W. North Av.*
I Yr. Engineering. [S. A. T. C.] [2]

JAMES ROLAND WILHELM. Baltimore Co. *Glencoe.*
II Yr. Chemical Engineering. [S. A. T. C.]

TIFFANY JOHNS WILLIAMS. Baltimore. 619 *N. Carey St.*
IV Yr. Academic (Chemistry). [S. A. T. C.]

JOHN ARTHUR WISNER. Upperco. 2742 *Maryland Av.*
III Yr. Academic.

FREDERICK WITTE. Baltimore. *Homewood.*
II Yr. Military Academic. [S. A. T. C.] [2]

EDMUND SCOTT WOOD. Baltimore. 2107 *Maryland Av.*
II Yr. Civil Engineering. [S. A. T. C.]

RICHARD MINOT WOOD. Baltimore. *Keyworth Av.*
I Yr. Mechanical Engineering.

WILLIAM HOLMES WOOD. Baltimore. 2107 *Maryland Av.*
I Yr. Academic (Pre-Medical). [S. A. T. C.]

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I Yr. Engineering. [S. A. T. C.] [2]

CHAUNCEY BECHTLE WRIGHT. Ceredo, W. Va. 2326 *N. Charles St.*
I Yr. Academic (Pre-Medical).

LAWRENCE MALCOLM WRIGHT. Baltimore. 109 *Lake Montebello Ter.*
I Yr. Academic.

VERTREES JUDSON WYCKOFF. Baltimore. 1325 *Madison Av.*
III Yr. Academic. [S. A. T. C.]

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II Yr. Academic (Chemistry). [S. A. T. C.]

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I Yr. (II). Academic. [S. A. T. C.]

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I Yr. Academic. [S. A. T. C.]

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I Yr. Engineering. [S. A. T. C.] [2]

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I Yr. Chemical Engineering.

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IV Yr. Electrical Engineering. [S. A. T. C.]

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II Yr. (III). Chemical Engineering.

Academic	350	
Engineering	264	
		614

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Matriculates

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ETHEL NORRIS. Baltimore. 1925 *Linden Av.*
Maryland State Normal School. *Art I; English II; French I.*

MARIE CHAILLE WALLER. Baltimore. 726 *N. Carey St.*
Maryland State Normal School. *French I.*

KATHERINE ELEANOR WEBSTER. Baltimore. 900 *Madison Av.*
Western High School. *Education VIII.*

LOUISA AVA WEEDEN. Baltimore. 1306 *W. Lexington St.*
Maryland State Normal School. *History I.*

HATTIE MAE WILLET. Carroll Co. *Westminster.*
Westminster High School. *Education VIII; German I.*

ELEANOR WRIGHT. Baltimore. 2723 *St. Paul St.*
Maryland State Normal School. *Education V; English III; French I; History I; History of the Ancient East; Philosophy; Spanish I.*

(10)

Special Students

MARIEA ACKER. Baltimore. 1807 *Bolton St.*
Chemistry I.

HATTIE JOSEPHINE ADAMS. Baltimore. 524 *Rossiter Av.*
French II; Latin; Spanish II (A) and III (A).

BEATRICE IRENE AMOSS. Baltimore Co. *Raspeburg.*
History I.

JOSEPH VALERIO ARELLANO Y R. Baltimore. 114 *E. 25th St.*
French II.

CARLOS VAZQUEZ ARJONA. Ponce, Porto Rico. 3123 *N. Calvert St.*
English III; French III; History I and II (A); Spanish II (G).

JULIUS ASKIN. Baltimore. 907 *Pennsylvania Av.*
English I.

FRANK ASTOR. Baltimore. 3668 *Falls Rd.*
A. B., University of Virginia, 1912. *Education VIII; Philosophy.*

HELEN SKIPWITH ATHEY (Mrs.). Baltimore. 100 *S. Patterson Pk. Av.*
French IV.

JOHN GREENE AUSTIN. Newton, Ala. 2808 *N. Calvert St.*
A. B., Mississippi College, 1913. *Education I, II and III; English III; History I.*

MARIANO BADILLO. Mexico City, Mex. *Central Y. M. C. A.*
French IV.

ROSA BALDWIN. Baltimore. 1615 *Linden Av.*
A. B., Goucher College, 1896. *German IV.*

NATALIE BALLOU. Baltimore. *Roland Park.*
A. B., Roanoke Female College, 1890. *Practical Spanish (A).*

JENNIE BAMBERGER. Baltimore. 847 *Ducatel St.*
History I; Oriental Art.

AARON BEAR BAROWAY. Baltimore. 2554 *McCulloh St.*
Philosophy.

EDITH M. J. BARRETT. Memphis, Tenn. 4025 *Belle Av.*
Chemistry III.

ELIZABETH HALLOWELL BARTLETT. Baltimore. 1922 *Mt. Royal Ter.*
A. B., Swarthmore College, 1912. *Art III.*

HARRIET ELIZABETH BEALL. Baltimore. 714 *Spring Hill Ter.*
English III.

EDITH ADELAIDE BECK. Punxsutawney, Pa. 2823 *St. Paul St.*
A. B., Goucher College, 1904, and A. M., 1917. *Art I; Latin II.*

GEORGIA ROYSTON BELT (Mrs.) Baltimore Co. *Govans.*
Education III.

CARVILLE DICKINSON BENSON, JR. Baltimore County. *Halethorpe.*
English II.

JOSEPH MOSES BERKOWITZ. Baltimore. 232 *N. High St.*
History I; Philosophy.

CHARLES EVERETT BILLS. Newburyport, Mass.
Philosophy.

ARTHUR HENDLEY BLAKEMORE. Senora, Va. 120 *Jackson Pl.*
B. S., William and Mary College, 1918. *German I.*

JOSEPH SELMAN BLAUSTEIN. Baltimore. 805 *Chauncey Av.*
Oriental Art.

ALBERT HERBERT BLUM. Baltimore. 2502 *Brookfield Av.*
Oriental Art.

LORETTA MARY BOLLMAN. Baltimore. 236 *W. Woodland Av.*
A. B., Goucher College, 1909. *Latin II.*

FLORENCE RINGGOLD BONE. Baltimore. 722 *N. Fulton Av.*
French I.

JAMES RAWLINGS HERBERT BOONE. Baltimore Co. *Lake Roland.*
Art I.

EMMA CHRISTINE BOSCH. Baltimore. 410 *N. Milton Av.*
Philosophy.

FORREST FULTON BRAMBLE. Baltimore. 939 *N. Broadway.*
Oriental Art.

DANIEL BAKER BRATT. Oxford.
History I.

ESTHER BRODIE. Baltimore. 2337 *Druid Hill Av.*
English I.

MEYER BROWN. Baltimore. 128 *N. Exeter St.*
B. S., Johns Hopkins University, 1918. *French III; Spanish II A.*

LIDA MATILDA BROWNE. Baltimore. 22 *E. Mt. Vernon Pl.*
French I.

LOLA BRUMBLE. Baltimore. 1017 *Linden Av.*
Spanish II A.

MARY WALLACE BUCK. Norfolk, Va. 2735 *Maryland Av.*
A. B., Randolph-Macon Woman's College, 1918. *French IV.*

JAMES EDWARD BURROUGHS, JR. Baltimore. 2630 *N. Calvert St.*
English I; History I.

NORMAN W. CAMERON. Baltimore. *Lafayette & Carrollton Avs.*
A. B., Washington College, 1895; Ph. D., University of Pennsylvania, 1911. *Spanish II A.*

ALICE DALLAM CAMPBELL. Baltimore. 129 *W. Lafayette Av.*
Art II; Oriental Art.

HARRY SHARP CANNON. Nicholasville, Ky. 2642 *N. Charles St.*
A. B., University of Kentucky, 1909, and A. M., 1911. *Spanish I.*

JOHN ALBERT CARNAGEY. Louisville, Ky. 1611 *E. Biddle St.*
B. S., Centre College (Ky.), 1918. *French I.*

CLARENCE R. CASE. Roland Park. *U. S. Hospital No. 7.*
Chemistry I.

HARRY JOSEPH CASEY. Forest Park. 4200 *Maine Av.*
English I.

GEORGE SCHOLL CATTANACH. Govans. *York Rd. & Church La.*
History I.

HSIN-HAI CHANG. Shanghai, China. 2627 *Maryland Av.*
Education I and III; French I; German IV; Philosophy.

JENNINGS PIN-KWEI CHU. Hangchow, China. 2627 *Md. Av.*
A. B., Johns Hopkins University, 1918. *Education II and VII.*

SARAH BEATRICE CLARK. Litchfield, Conn. 329 *Dolphin St.*
French I.

YOLANDE CLAWSON. Baltimore. 1835 *Bolton St.*
English II; The Bible.

MAYNARD ARTHUR CLEMENS. Baltimore. 2044 *Kennedy Av.*
B. S., Teachers' College, Columbia University, 1913. *Education II.*

ESTHER INEZ COLDWELL. Oxford, Kansas. 315 *E. 31st St.*
A. B., Southwestern College, 1915. *French I.*

AYLETT BRECKINRIDGE COLEMAN, JR. Roanoke, Va. 2313 *N. Calvert.*
English II.

ANNA COLE. Baltimore. 611 *Montpelier St.*
Education VII.

ROBERT EDWARD LEE COLLINS. Balt. Co. *Mt. Washington Hghts.*
Oriental Art.

ALICE ELIZABETH COMEGYS. Baltimore. 1405 *Park Av.*
Education I.

MIRIAM CONNET. Baltimore. 727 *Reservoir St.*
A. B., Goucher College, 1918. *French IV; Spanish II A.*

GOLDIE COOPER. Baltimore. 22 *S. Washington St.*
English I.

ALICE CLARKE CORIA. Baltimore. 3710 *Greenmount Av.*
Spanish I.

HELEN FRANCES CORSE. Baltimore. 720 *Lennox St.*
Art III.

MARY ROBERTS CORSE. Baltimore. 720 *Lennox St.*
Art III.

ELLA FRANCES CORY (Mrs.) Berkeley, Cal. *Rochambeau Apts.*
Ph. B., Brown University, 1902, and A. M., 1904. *Russian.*

ESTHER JOSEPHINE CROOKS. Ravenswood, W. Va. *Lutherville.*
Ph. D., Denison University, 1909. *French II.*

CHARLES WILLIAM REMSBERG CRUM. Brunswick. 42 *E. 26th St.*
A. B., Johns Hopkins University, 1884; M D., University of Maryland, 1888.
Education III.

JAMES KIMMEY CULLEN, JR. Baltimore Co. *Catonsville.*
English II.

JOHN MATTHAIS DAIGER. Baltimore. *Olwynn Apts.*
History I.

OCTAVIA AMELIA DALLAM. Baltimore. 1318 *Bolton St.*
French III.

EMANUEL MAURICE DAVIDOVE. Baltimore. 1416 *E. Lombard St.*
English III.

JEANNETTE DAVIS. Baltimore. 128 *W. Franklin St.*
A. B., Goucher College, 1918. *Philosophy.*

MARY ELLEN DICKINSON. Mt. Vernon, O. 821 *N. Charles St.*
A. B., Smith College, 1911; M. A., Columbia University, 1916. *Chemistry I and III.*

EDNA LEOLA DIXON. Baltimore. 2206 *Elsinor Av.*
Education II.

CLARA S. DOBBIN. Baltimore. *Walbert Apts.*
Education III (G) and VIII.

JOHN GRAY DOUGLAS. Baltimore. 830 *W. North Av.*
History I.

WARREN MAYNARD DRIVER, JR. Balt. 336 *Rosebank Av., Govans.*
Oriental Art.

ELEANOR BERNARD GEORGE DUFFY (Mrs.). Baltimore.
French IV. 110 *W. North Av.*

EDITH ELINOR GRANT DUKER (Mrs.). Baltimore. 3904 *Charles St.*
A. B., Goucher College, 1906. *English III.*

HILDA NORTH DULAC (Mrs.) Baltimore. *University Apts.*
Art III; History II (A); Latin II; Oriental Art; Spanish 1.

VICTOR DULAC. Baltimore. *University Apts.*
A. B., George Washington University, 1915; A. M., Johns Hopkins University, 1918. *Philosophy.*

HELEN MACKINTOSH DUSHANE. Baltimore. 4304 *Greenway, Guilford.*
Education II; French III.

HART MANLY DYMOND. Waymart, Pa.
Philosophy.

LILLIAN EAGLESTON. Baltimore. *Denmore Park.*
History I.

LUCY ELEANOR EAGLESTON. Baltimore. *Denmore Park.*
Chemistry I; English II; French I; History I.

KATE ESTHER EBAUGH. Baltimore. 2312 *Arunah Av.*
French I.

LULU VIOLA EBAUGH. Baltimore. 2312 *Arunah Av*
French I.

EVA ECKHARDT. Baltimore. 611 *E. Chase St.*
Spanish II A.

MARGARET TABITHA ENGLAR. Baltimore. 1217 *Madison Av.*
A. B., Goucher College, 1896. *Education V.*

FRANCES ANNA MARGARET ERLMEIER. Baltimore. 226 *S. 3d St.*
German IV.

EDITH IRONS EYLER. Baltimore. 3415 *Piedmont Av.*
Education III.

ISIDOR FINEMAN. Baltimore. 800 *Newington Av.*
History I.

IDA MAY FOX. Baltimore. 2222 *N. Calvert St.*
Education VII.

MARY ISABEL FRAMES. Baltimore. 1921 *St. Paul St.*
Drawing; French I.

ALEXANDER DAVID FRASER. Pictou, N. S. 1530 *Linden Av.*
A. B., Dalhousie University, 1910. *Art I; Oriental Art.*

FRANCIS MITCHELL FROELICHER. Hamilton. 303 *Tramore Rd.*
A. B., Haverford College, 1913. *Education VII.*

WALTER RASIN GALE. Baltimore. 1401 *Linden Av.*
Art III; Oriental Art.

IRENE GARDNER. Baltimore. 6 *E. Read St.*
English II.

RALPH MARCUS GARDNER. Baltimore 2917 *Guilford Av.*
Spanish I.

ROSALIE ELIZABETH GARDNER. Baltimore. 5 *W. 29th St.*
Spanish I.

EMMA MAY GEGNER. Baltimore. 3243 *Eastern Av.*
French I.

RUTH ANNA GEGNER. Baltimore. 3243 *Eastern Av.*
French I.

WILLIAM FREDERICK GERICKE. Berkeley, Cal. 311 *E. 31st St.*
B. S., Iowa State College, 1912; M. S., University of California, 1915.
French I.

OLIVE RUSSELL GILPIN (Mrs.) Baltimore. *Stony Run Lane.*
History I.

MAURICE GLICK. Baltimore. 2103 *McCulloh St.*
Philosophy.

GEORGE GOETZ. Baltimore. 2110 *E. Pratt St.*
English II; Philosophy.

MARY JULIA GONTRUM. Baltimore Co. *Raspeburg.*
Russian.

JACOB GRAPE. Baltimore. 333 *E. 22d St.*
B. S., Johns Hopkins University, 1918. *History II A.*

THOMAS BROOKS GRAVE. Baltimore. 106 *Wyndhurst Av., R. P.*
English II.

WINONA GREIMAN. Carroll Co. *Westminster.*
Education IX.

GEORGE GREGORY GRIM. Baltimore. 2320 *Reisterstown Rd.*
Education VII; English III.

HELDMAN JOSEPH GRINSFELDER. Baltimore. 2020 *Eutaw Pl.*
Oriental Art.

JESSE MANN HALLE. Baltimore. 2222 *Callow Av.*
History I.

EDITH MURIEL HARN. Baltimore. 4140 *Roland Av.*
A. B., Goucher College, 1915. *French II.*

JOSEPH HARRIS. Baltimore. 1220 *McElderry St.*
Philosophy.

ESTHER ANNA HARRISON. Baltimore. 1400 *Eutaw Pl.*
A. B., Goucher College, 1899. *Education V.*

JEANNE HARTNETT (Mrs.) Baltimore. 226 *N. Liberty St.*
Spanish II A.

WINIFRED REBECCA HAZELTINE. Baltimore. *Derby Lane.*
Education VIII.

MARIE VIRGINIA HEAPHY. Baltimore. 1718 *St. Paul St.*
Spanish I.

ELEANOR CECELIA HEAVY. Howard Co. *Ellicott City.*
French IV; Spanish II.

JOSEPH MARION HERMAN. Baltimore. 1701 *Madison Av.*
History I.

SISTER M. XAVIER (HIGGINS). Mt. Washington.
A. B., Mt. St. Agnes College, 1913. *Education VIII.*
Mt. St. Agnes College.

BOSLEY HISS. Baltimore. 1427 *Linden Av.*
Art I.

JOHN EDWARD HOFFMEISTER. Baltimore. 2920 *Parkwood Av.*
French II.

ELMER RHODES HOKE. Baltimore. 1220 *W. 36th St.*
A. B., Franklin and Marshall College, 1913, and A. M., 1914; B. D., Eastern Theological Seminary (Lancaster), 1917. *Education I, III, and VII; Philosophy.*

ROY EDWARD HOKE. Harrisburg, Pa. 1220 *W. 36th St.*
A. B., Franklin and Marshall College, 1916, and A. M., 1917. *Education I, III, VII; Philosophy.*

MARY VIRGINIA HOPKINS. Baltimore Co. *Orangeville.*
Education II.

MARY CUSHING W. HOWARD (Mrs.). Baltimore. 1122 *N. Calvert St.*
English III.

ETHEL HUBBARD. Baltimore. 1407 *Mt. Royal Av.*
French II.

GUY LE ROY HUNNER. Baltimore. 2305 *St. Paul St.*
M. D., Johns Hopkins University, 1897. *Art III.*

ISABELLA F. HUNNER (Mrs.). Baltimore. 2305 *St. Paul St.*
A. B., Goucher College, 1896. *Art III.*

VIRGINIA BOYD JONES. Baltimore. 2105 *Elsinore Av.*
French II; Spanish I.

FRANK KATZ. Baltimore. *Linden Av. and Brooks Lane.*
History I.

EDWARD STAUFFER KING. Baltimore. 1243 *Mt. Royal Av.*
English I.

RAY KLEIN. Baltimore. 2022 *Brookfield Av.*
French III.

EDITH KLINESMITH. Baltimore. 2624 *St. Paul St.*
French I.

CHARLES J. KOCH. Baltimore. 2524 *Maryland Av.*
LL. D., University of Maryland. *History I.*

HILDA A. L. KRATSCH. Baltimore. 243 *Patterson Pk. Av.*
English II.

ANDREW HOFFMAN KRUG. Baltimore. 828 *E. Preston St.*
A. B., St. John's College, 1901; Fellow, Johns Hopkins University, 1908, and Ph. D., 1910. *Oriental Art.*

GEORGE LACHMAN. Baltimore. 1412 *Laurens St.*
English II.

MARIE CECILE LARSIMONT. New York, N. Y. 849 *Park Av.*
Spanish I.

CHARLES TUDOR LEBER. Baltimore. 153 *W. Lafayette Av.*
Oriental Art.

CHARLES CARROLL FULTON LESER. Baltimore. 7 *W. Biddle St.*
Art I.

RAPHAEL LEVY. Baltimore. 705 *W. Lexington St.*
Philosophy.

JOHN HENRY LEWIN. Baltimore Co. *Parkton.*
Art I.

HELEN LIPMAN. Baltimore. 1626 *Madison Av.*
English II; French II

CLARENCE LIPPEL. Cumberland.
History I.

MARGARET LUCILE LIPPITT. Meadville, Pa. 1224 *Light St.*
A. B., Allegheny College, 1915. *French III.*

YUNG JAO LOE. Peking, China. 1 *W. 27th St.*
English II; Oriental Art.

KWANG LAI LOU. Chekiang, China. 2625 *Maryland Av.*
Education I and III; French II; German IV; Philosophy.

LILY LOWENBERG. Baltimore. 2421 *Madison Av.*
English III.

IDA MAE LYNN. Oakfield, N. Y. 3123 *N. Calvert St.*
English I; History I and II A.

MARGARET ELIOT MACGREGOR. Washington, D. C. 2504 *N. Charles St.*
A. B., Goucher College, 1917. *Education III.*

LOUIS MACHT. Baltimore. 1716 *N. Fulton Av.*
English II.

ELIZABETH M. MAKIBBIN. Baltimore. 920 *N. Fremont Av.*
Oriental Art.

ALICE GERTRUDE MALLALIEU. Forest Park. 3807 *Bonner Rd.*
A. B., Goucher College, 1899. *French I.*

MATILDA BACKUS MALOY (Mrs.). Baltimore. 1041 *N. Eutaw St.*
Spanish I.

WILLIAM MILNES MALOY. Baltimore. 1041 *N. Eutaw St.*
J. D., Catholic University of America, 1909. *Spanish II.*

SARAH SIMPSON MANLY. Baltimore. *Guilford Manor.*
History I.

FRANCES JOSEPHINE MANN. Baltimore. 3110 *N. Calvert St.*
French II.

NATHA ANNETTE MANN. Baltimore. 3110 *N. Calvert St.*
Philosophy; Spanish II.

ELEANOR HOWARD MARSHALL (Mrs.). Baltimore. 818 *W. 40th St.*
A. B., Radcliffe College, 1917. *Spanish I.*

ZOE MARGARET MASON. Baltimore. 2207 *St. Paul St.*
Cumberland Valley State Normal School (Pa.). *Art I; English II; History I and II (A); Spanish I.*

ELAINE WILSON MAULSBY. Baltimore. 208 *Mosher St.*
Oriental Art.

OSCAR WOOD MCCLEARY. Baltimore. 3365 *Chestnut Av.*
English II.

ANNA C. MCKEWEN (Mrs.). Baltimore. 1508 *John St.*
Art III.

WILLIAM LEE MERRIKEN. Roland Park. *Belvedere Av.*
English II

HATTIE KADER MERRILL. Baltimore. 910 *E. Pratt St.*
English I.

HAROLD HOLT MERSEREAU. Brooklyn, N. Y. 722 *Reservoir St.*
Oriental Art.

ALMA IRENE MILLER. Baltimore. 2425 *N. Calvert St.*
A. B., Mount Holyoke College, 1909; A. M., Columbia University, 1910. *Russian.*

HENRY S. MILLER. Baltimore. *Esplanade Apts.*
English II; Philosophy.

LEO DANIEL BISER MILLER. Washington Co. *Boonsboro.*
English II.

IRENE MILLS. Baltimore. 2436 *N. Calvert St.*
History I.

FRANK GUY MOORE. Union, N. Y. 606 *N. Broadway.*
A. B., Hamilton College, 1918. *French I.*

AMY WHEELER MORGAN (Mrs.). Jewett, Ill. 2827 *Walbrook Av.*
Art I.

EDGAR A. MORGAN. Jewett, Ill. 2827 *Walbrook Av.*
A. B., University of Illinois, 1906. *History I.*

EDWARD A. MORRIS. Baltimore. 4411 *Reisterstown Rd.*
History I.

FANNIE MOSES. Baltimore. 2002 *Bolton St.*
B. Chem, Cornell University, 1918. *Philosophy.*

OSCAR MOSKOWITZ. Brooklyn, N. Y. *Fort McHenry.*
B. C. S., New York University. *English II; Philosophy.*

HELEN LOUISE MOUL. Baltimore. 732 *Dolphin St.*
Education II.

KATHERINE FRANCES MUESSE. Baltimore. 1248 *N. Broadway.*
Education VIII.

LAWRENCE DIXON MURPHY. Washington, D. C. 3014 *N. Calvert St.*
English II; Philosophy.

GLADYS NEWMAN. Buffalo, N. Y. 4025 *Belle Av.*
A. B., Oberlin College, 1917. *Chemistry III.*

HENRY DARLING NILES. Baltimore. 1214 *N. Caroline St.*
Art I; English II.

EDWARD TAYLOR NORRIS. Baltimore. 1203 *N. Charles St.*
Art I.

MAX ALEXANDER NOVEY. Rocky Mount, N. C.
French III. 1924 *E. Baltimore St.*

FRANCES ARDELL ODELL. Baltimore. *University Apts.*
Education I.

WILLIAM JOSEPHUS OGLEBAY. Baltimore. 1822 *Barclay St.*
History I.

EVA ANNA PALMER. Baltimore. *The Boulevard Apts.*
History I.

ELIZABETH WOLCOTT PARKER. Orange, N. J. 708 *St. Paul St.*
St. Timothy's School. *Biology I (A); Education I and III; Philosophy.*

RICHARD ALEXANDER PARKER. Baltimore. 1633 *W. North Av.*
Philosophy.

SUMNER ABRAHAMS PARKER. Baltimore. 913 *St. Paul St.*
History I.

GERTRUDE PAUL, JR. Baltimore. 2210 *N. Charles St.*
Art III; Oriental Art.

JAMES NELSON PLATT. Abington, Conn. *Fort McHenry.*
Education III and IX.

MARTHA PECK PORTER. Baltimore. 821 *N. Charles St.*
French II and III.

EDNA KATHRYN PRICE. Smyrna, Del. 128 *W. Franklin St.*
History I.

ALBERT W. RAYNER. Baltimore. 1814 *Eutaw Pl.*
History I.

ELIZABETH CATHERINE REMMERT. Baltimore. 3033 *Guilford Av.*
Spanish II.

E. JOHN W. REVELL. Baltimore. *The Read Apts.*
Philosophy.

LOIS RICHMOND. Baltimore Co. *Sparrows Point.*
Education I.

DOROTHY POWELL RIDGELY (Mrs). Baltimore. *Canterbury Hall.*
History I.

JULIAN WHITE RIDGELY. Roland Park. 100 *Edgevale Rd.*
A. B., Johns Hopkins University, 1908. *History I.*

MARGUERITE RIDGELY (Mrs.). Roland Park. 100 *Edgevale Rd.*
History I.

HARRIET QUYNN RIGNEY. Baltimore. 1808 *St. Paul St.*
English 1; Latin II.

MARTIN ARNOLD ROBERTS. Baltimore. 2841 *St. Paul St.*
English III; French II.

ORRIS G. ROBINSON. Baltimore. 2875 *W. Lafayette Av.*
History I.

MARY BRAMAN ROCKWOOD. Baltimore. 1217 *Madison Av.*
A. B., Oberlin College, 1879, and A. M., 1894. *Education V.*

VIRGINIA ROGERS. Baltimore. 219 *W. Lafayette Av.*
Oriental Art.

MAUDE STANARD ROSS. Baltimore. 219 *W. Lafayette Av.*
Art II and III; Oriental Art.

ELEANOR ROTH. Baltimore. 17 *N. Milton Av.*
Art I.

ARTHUR CHARLES RUBENSTEIN. Baltimore. 2313 *Callow Av.*
History I.

HILDA RUBIN. Baltimore. 2240 *Brookfield Av.*
English II.

GEORGE YEISLEY RUSK. Roland Park. 110 *Elmwood Rd.*
A. B., Johns Hopkins University, 1913. *French I; German I.*

EVELYN ESTEY SANDERS. Baltimore. 2212 *N. Charles St.*
A. B., Goucher College, 1909. *French II and III.*

CHARLES DANIEL SAPP. Baltimore. 1425 *Federal St.*
A. B., Johns Hopkins University, 1918. *Education I and III.*

SYLVIA SAVAGE. Baltimore. 1729 *Madison Av.*
English III.

EMMA ADALINE SCHAD. Baltimore. 1636 *John St.*
History I; Philosophy.

GIOVANNI ERMENEGILDO SCHIAVO. Baltimore. 135 *N. Front St.*
History I.

EDWARD G. SCHLAEFER. Bushkill, Pa. *Fort McHenry.*
Philosophy.

SIGMUND MONTIFIORE SCHNEEBERGER. Baltimore. *Rochester Apts.*
Spanish II (A).

FLORENCE SCHUBERT. Baltimore. 1256 *N. Broadway.*
A. B., Notre Dame College, 1916. *Chemistry III (lects.).*

HANS SCHULER. Baltimore. 7 *E. Lafayette Av.*
Art III; Oriental Art.

PAULA MARGARET SCHULER (MRS.). Baltimore. 7 *E. Lafayette Av.*
Art II and III; Oriental Art.

HELEN TOWNSEND SCOTT. Baltimore. 1119 *N. Charles St.*
A. B., Bryn Mawr College, 1910 *Russian.*

LULU MARGUERITE SEHRT. Baltimore.
French I. *Overland Av. and Harford Rd.*

ARTHUR SHAPIRO. Baltimore. 610 *Aisquith St.*
French I.

ISRIEL MITCHELL SHAPIRO. Baltimore. 1409 *E. Fayette St.*
English I.

EDWARD HERBERT SHAW, JR. Baltimore. 2200 *Poplar Grove St.*
English II.

HELEN SHERBERT. Baltimore. 1800 *N. Calvert St.*
French III.

NATHAN SHPRITZ. Baltimore. 1228 *McCulloh St.*
Philosophy.

ELIZABETH SILKMAN. Baltimore. 817 *Park Av.*
Education IX.

LINA SIMON (Mrs.). Baltimore. 1734 *Linden Av.*
Art I and III.

BERTHA W. SMITH (Mrs.) Baltimore. 4 *E. Biddle St.*
Oriental Art.

JOHN SNOWDEN STANLEY. Laurel. 3117 *N. Calvert St.*
Philosophy.

LOUISE AUGUSTA STIEGLER. Baltimore. 2617 *N. Charles St.*
Education VII.

LE ROY VICTOR STRASBURGER. Baltimore. 632 *Linwood Av.*
English II.

WILLIAM LOUIS STRAUS, JR. Baltimore. *Alhambra Apts.*
History I.

BEATRICE SYBIL SWARTZ. Baltimore. 2205 *Callow Av.*
Philosophy.

CLARA VIRGINIA TAPMAN. Catonsville. *Glenwood Av.*
French I.

CATHERINE BOWIE CLAGETT THOMAS (Mrs.). Baltimore.
B. S., Johns Hopkins University, 1918. *German IV.* 2424 *N. Calvert St.*

NATHANIEL S. THOMPSON. Jackson, Mich. 708 *St. Paul St.*
Philosophy.

MARY GENEVIEVE THUMAN. Baltimore. 2508 *N. Charles St.*
Art I; History of the Ancient East.

SAMUEL STALEY TREGELLAS. Baltimore. 1621 *Eutaw Pl.*
Philosophy.

HELEN TRYBULASKI. Baltimore. *Woodlawn.*
French I.

GERTRUDE ESTELLE TUCKER. Baltimore. *Boulevard Apts.*
English I (G) and III; History I; Philosophy.

LAURA TURNBULL (Mrs.) Baltimore. *Mt. Royal Apts.*
History I.

JOHN EARLE UHLER. Baltimore. 2403 *Allendale Rd.*
A. B., Johns Hopkins University, 1913. *Education I, III and VII.*

ETHEL MARIE UNIACK. Baltimore. 627 *Euclid Av.*
Spanish II A.

LENA CHEW VAN BIBBER. Baltimore. 129 *E. North Av.*
B. S., Teachers' College, Columbia University, 1917. *History I.*

JAMES LEONARD VICKERS. Huntington, W. Va. 2326 *N. Charles St.*
Philosophy.

ELLENOR VOLZ. Baltimore. 2932 *McElderry St.*
French I.

MARY ELEANOR KIRKBRIDE WALKER. Baltimore. 2134 *Bolton St.*
French I.

RUTH ELIZABETH WATERS. Baltimore. 2312 *Frederick Av.*
Education I and III.

MARIE ANTOINETTE WEIDENHAMMER. Baltimore. 213 *S. Calhoun St.*
English III; History II A.

HUGO WEISBERGER. Baltimore. 2430 *Woodbrook Av.*
Spanish II A.

WARREN REED WEST. Washington, D. C. 304 *D St., N. E.*
A. B., George Washington University, 1918. *History I.*

REBEKAH JANE WHALEN. Ellicott City. *Mt. Hebron.*
A. B., Goucher College, 1917. *Art I; Latin II.*

JAMES POLLARD WHARTON. Baltimore. 1307 *Linden Av.*
Russian.

MAY WHARTON. Baltimore. 1307 *Linden Av.*
Education III.

ANNIE CULLUM WILLIAMS. Baltimore. 3556 *Benson St.*
Education VIII.

GEORGE THOMPSON WILLIAMS. Baltimore. 1534 *Park Av.*
English I and II.

SUSANNE WILLIAMS. Baltimore. 1901 *Linden Av.*
French I.

GWENDOLEN BROWN WILLIS. Racine, Wis. 329 *Dolphin St.*
A. B., University of Chicago, 1896; Ph. D., Bryn Mawr College, 1904. *Spanish II.*

MARY MARJORIE WILLS. Baltimore. 1012 *W. Lanvale St*
Education I.

ELENORE G. WILSON. Baltimore. 1524 *Linden Av.*
Oriental Art.

ROBERT LOUIS WOOD. Baltimore. *Belair Rd. and White Av.*
History I.

EVA MYRTLE WOOLFORD. Baltimore. 2122 *E. Lombard St.*
English I.

MARY ISABELLE WYMAN. Baltimore. 3003 *Matthews St.*
Biology I (A); Chemistry III.

WILLIAM NORRIS WYSHAM. Baltimore. 215 *Oakdale Rd., R. P.*
A. B., Lafayette College, 1913; M. A., Princeton University, 1915. *Education II and V.*

HARRY YAFFE. Baltimore. 2003 *E. Pratt St.*
History I.

URSULA REGINA SUSANNA YEAWORTH. Govans. 6237 *Bellona Av.*
English I.

CHAI LAN YU. Foochow, China. 2627 *Maryland Av.*
French I.

UNIVERSITY EXTENSION CENTER: FREDERICK, MD.

Educational Psychology: The Psychology of Adolescence and Secondary School Subjects and Activities

HARVEY DANIEL BEACHLEY. Thurmont.
A. M., Franklin and Marshall College, 1901.

JAMES COSSIE BIEHL. Frederick.

CHESTER GARFIELD CLEM. Frederick.

PEARL ALBERTA EADER. Frederick.

RUTH ANITA FIROR. Thurmont.
A. B., Goucher College, 1912.

EDITH SUSANNAH GARDINER. Frederick.
A. B., Wilson College, 1904.

SPENCER FENTON HARRIS. Frederick.

ALVEY MICHAEL ISANOGLE. Thurmont.
A. B., St. John's College, 1898.

MARCELENE KEFAUVER. Braddock Heights.
A. B., Hood College, 1908.

GEORGE LORENZO MILLER. Frederick.
A. B., St. John's College, 1905.

MARY CASTLE OTT. Frederick.

GEORGE LLOYD PALMER. Frederick.
Johns Hopkins University.

CHARLES HENRY REMSBERG. Braddock Heights.
A. B., Franklin and Marshall College, 1899.

MARY JULIA SHUFF. Frederick.

JOHN LUTHER SIGMUND. Frederick.
A. B., Dickinson College, 1898, and A. M., 1900.

KATHARINE MARIE WIENER. Frederick.

UNIVERSITY EXTENSION CENTER: ELKTON, MD.

Education VII: Elementary Education

LINDA RANDOLPH ANDERSON. Port Deposit.

MARY L. BUDD. Elkton.

HUGH WRIGHT CALDWELL. Elkton.
Johns Hopkins University.

BESSIE DAVIS. Cecilton.

HATTIE EVANS. Elkton.

DEBORAH AMELIA JACKSON. Principio Furnace.

RACHEL ELIZABETH MACKEY. Elkton.

FLORA L. MARSHBANKS. Elkton.

RUTH A. MCCRACKEN. North East.

ALICE E. MILLER. Elkton.

OLIVE CAMERON OLDHAM. Earleville.

ANNIE SUTTON PATTERSON. Blythedale.

CORA MAY PIPPIN. Elkton.

ESTHER O'NEILL SMITH (Mrs.) Havre de Grace.

MARY C. H. WALTERS. Elkton.

GRATIA C. WELLS. Elkton.

LIZZIE F. WELLS. Elkton.

EMMA WILLIS (Mrs) Chesapeake City. (301)

Total (347)

EXPLANATION OF SYMBOLS EMPLOYED ABOVE

(*G*) = Graduate Course; (*A*) = Regular College Course; *A* = a C. C. for T. alternative course; (*H*) = School of Hygiene.

ATTENDANTS ON COURSES IN BUSINESS ECONOMICS

WM. FREDERICK ACKLER.	3820 Park Hgts. Av.	*Advertising; Salesmanship.*
ANNA CHRISTINA ALBERT.	112 S. Ellwood Av.	*Govt. & Administration.*
JAMES J. ALLNUTT.	316 E. 33rd St.	*Corporation Finance.*
WILLIAM BAKER ALLNUTT.	1232 W. Lafayette Av.	*Business English; Corporation Finance.*
JOHN I. ANDERSON.	Gittings Av., Govans.	*Business English.*
JOSHUA MELVIN ANTHONY.	813 N. Gilmor St.	*Corporation Finance.*
MEYER G. BAKER.	649 Light St.	*Elementary Accounting.*
MINNIE THERESA BAKER.	2143 W. North Av.	*Business English.*
JENNIE BAMBERGER.	847 Ducatel St.	*Social Ethics.*
STELLA H. BAMBERGER.	210 Laurens St.	*Social Ethics.*
RAYMOND EDWARD BARKER.	3006 Belmont Av.	*Corporation Finance.*
AARON BEAR BAROWAY.	2554 McCulloh St.	*Social Ethics.*
FRANCIS GILPIN BARTLETT.	2100 Mt. Royal Terr.	*Business English.*
ETHEL BECK.	1819 Guilford Av.	*Corporation Finance.*
CATHERINE FOWLER BELL.	2017 Callow Av.	*Corporation Finance.*
JAMES L. BENSON.	5709 York Rd.	*Elementary Accounting.*
ADA MARGARET BENJAMIN.	2210 Elsinor Av.	*Elementary Accounting.*
THOMAS B. BENSON.	1701 N. Charles St.	*Elementary Accounting.*
JOSEPH MOSES BERKOWITZ.	232 N. High St.	*Corporation Finance.*
BERTRAM S. BERNEY.	26 Talbot Rd.	*Elementary Accounting.*
SIDNEY BERNEY.	26 Talbot Rd.	*Elementary Accounting.*
MARY E. BEVAN.	18 Melvin Av.	*Business English.*
MILTON S. BILLMIRE.	2118 Mt. Holly St.	*Corporation Finance.*
JOHN F. BITTNER.	12 Markley Av.	*Corporation Finance.*
EVAH BLUMBERG.	2041 E. Baltimore St.	*Social Ethics.*
MARGARET D. BOEHM.	Roland Park.	*Social Ethics.*
FOLBROOK BOLAN.	3209 Garrison Av.	*Corporation Finance.*
FLORENCE R. BONN.	3301 Elgin Av.	*Social Ethics.*
JAMES W. BOOTH.	U. S. A. Hosp. No. 7.	*Advertising; Salesmanship.*
FRANCIS H. BOWER.	U. S. A. Hosp. No. 7.	*Advertising.*
HELEN M. BRISTOW.	14 E. Franklin St.	*Business English.*
JOHN M. BUCHHEIMER.	901 E. 41st St.	*Corporation Finance.*
JACOB E. BUCKEY, JR.	22 Grindon Av.	*Elementary Accounting.*
ALMA BUSH.	512 N. Chester St.	*Business English.*

NELL M. A. BUTLER.	880 W. Lombard St.	*Business English.*
JAMES CAREY.	2220 N. Charles St.	*Corporation Finance.*
LUCY BELLE CATITTON.	York Rd., Govans.	*Business English.*
HARRY LEROY CLARKE.	Nunnery Lane, Catons.	*Corporation Finance.*
JEANNETTE COHEN.	1403 N. Charles St.	*Business English; Corporation Finance.*
EDWARD GREENLEE COLE.	2713 Guilford Av.	*Corporation Finance.*
PETER THOMAS COLEMAN.	Raspeburg.	*Elementary Accounting.*
JACKSON ROSSE COLLINS.	Centreville.	*Advertising; Salesmanship.*
EDWARD C. CONSIDINE.	528 W. Mulberry St.	*Elementary Accounting.*
CLARENCE M. COOK.	310 N. Monroe St.	*Social Ethics.*
CARRIE E. CORBETT.	1513 Hanover St.	*Business English.*
SUMMERFIELD H. CORRELL.	1614 W. Fayette St.	*Corporation Finance.*
WALTER A. CRIST.	Sparrows Point.	*Political Economy.*
MORRIS WILLIAMS CROMER.	1820 Edmondson Av.	*Corporation Finance.*
LESLIE SHELBY CULLOM.	3618 Springdale Av.	*Business English.*
ANNE MARGARET CURRIE.	1728 St. Paul St.	*Business English; Political Economy.*
PAULINE CUSHEN.	1923 W. Lexington St.	*Elementary Accounting.*
EMILY DASHIELL.	344 E. 33rd St.	*Social Ethics.*
WILTON H. DEAL.	1905 W. Fayette St.	*Salesmanship.*
WILLIAM E. DODGE.	1812 Edmondson Av.	*Business English.*
ALPHEUS N. DOSIER.	1003 Greenmount Av.	*Elementary Accounting.*
JEREMIAH THOS. DUEKER.	1517 Clifton Av.	*Elementary Accounting.*
HART MANLY DYMOND.	Fort McHenry.	*Political Economy; Social Ethics.*
JAMES KAY EAGAN.	130 Overland Av.	*Political Economy.*
KARL WILHELM EBELING.	329 Hawthorne Rd.	*Social Ethics.*
JOHN CHARLES ECKEL.	Towson.	*Corporation Finance.*
WILSON ECKHARDT.	2322 Harlem Av.	*Elementary Accounting.*
JOHN B. EGERTON.	333 E. 20th St.	*Political Economy.*
MARY E. ELLIS.	2719 St. Paul St.	*Advertising.*
LEON JOSEPH ENGEL.	2422 Eutaw Pl.	*Salesmanship.*
W. H. B. EVANS.	543 N. Fulton Av.	*Corporation Finance.*
Z. BOND EVANS, JR.	900 E. Preston St.	
RHODA FALL.	47 S. Fulton Av.	*Business English.*
FLORENCE FLINN.	2708 Oak St.	*Corporation Finance.*
LAWRENCE SYDNEY FOX.	1208 Madison Av.	*Salesmanship; Advertising.*
SAMUEL B. FREEMAN.	2880 Woodbrook Ave.	*Elementary Accounting; Social Ethics.*
MARY G. FREEMAN.	2200 Montebello Av.	*Govt. & Administration.*
HUGO L. FRENCH.	108 Warren Av.	*Elementary Accounting.*

WM. LEO GARDINER.	311 E. 22nd St.	*Business English.*
RALPH MARCUS GARDNER.	2917 Guilford Av.	*Corporation Finance.*
WILLIAM MASLIN GARDNER.	6 W. Preston St.	*Corporation Finance.*
GEORGE GOETZ.	2110 E. Pratt St.	*Social Ethics.*
MARY JULIA GONTRUM.	Raspeburg.	*Political Economy.*
ROBERT FISKE GOODELL.	3037 Abell Av.	*Elementary Accounting; Political Economy.*
JOHN HOWARD GOSNELL.	2 E 26th St.	*Political Economy.*
JOHN FREDERICK GRAVES.	305 N. Payson St.	*Political Economy.*
BERTHA MARGARET GREENE.	909 Bennett Pl.	*Business English.*
C. LEROY GUNN.	3028 St. Paul St.	*Elementary Accounting.*
JESSE FRANKLIN HAKES.	Westerly, R. I.	*Corporation Finance.*
MARY HERMIE HALL.	2804 Harford Rd.	*Business English.*
HENRY G. HAMMAN.	Hamilton.	*Elementary Accounting.*
BERTIE HARRIS.	917 W. Baltimore St.	*Elementary Accounting.*
EDGAR L. HEAVER.	P'k Hts. Av., Arlg'ton.	*Corporation Finance.*
STEWART E. HECHT.	1616 Eutaw Pl.	*Corporation Finance.*
VERNON H. HELWIG.	1223 E. North Av.	*Elementary Accounting.*
JOB HERBERT.	2518 Guilford Av.	*Corporation Finance.*
GODFREY A. HERDER.	2123 E. Preston St.	*Corporation Finance.*
ELMER RHODES HOKE.	1220 W. 36th St.	*Social Ethics.*
ROY EDWARD HOKE.	220 W. Thirty-sixth St.	*Social Ethics.*
HARRY FOREMAN HOLMES.	Hampton Ct. Apts.	*Business English.*
THOMAS HIRAM HOOD, JR.	2118 Lake Av.	*Business English.*
AARON M. JACOB.	913 E. Madison St.	*Political Economy.*
HELEN MAY JOHNSON.	317 E. North Av.	*Social Ethics.*
ROBERT BRUCE JOHNSTON.	2737 St. Paul St.	*Elementary Accounting.*
ALFRED E. B. JONES, JR.	2426 W. Lanvale St.	*Business English.*
HILDA VANLEER KATZ.	2214 Linden Av.	*Advertising; Social Ethics.*
ELIZABETH GUEST KEECH.	2425 N. Calvert St.	*Business English.*
J. ADREON KELLER.	262 Robert St.	*Corporation Finance.*
ARMAND KEMPER.	107 W. Baltimore St.	*Elementary Accounting.*
CHARLES F. KIRSCHKE.	1841 Harford Av.	*Elementary Accounting; Political Economy.*
CATHERINE M. KOCH.	107 Hamilton Av.	*Business English.*
HILDA A. L. KRATSCH.	243 N. P't'son Pk. Av.	*Govt. & Administration.*
E. ELIZABETH LACHER.	806 Ridgely St.	*Business English.*
GEORGE LACHMAN.	1412 Laurens St.	*Social Ethics.*
CHARLOTTE B. LAMPE.	1117 W. Baltimore St.	*Business English.*
ANNA DORETTA LANGREHR.	1815 Eastern Av.	*Business English.*
WALTER E. LEE.	3813 Fenchurch St.	*Corporation Finance; Elementary Accounting.*
RALPH B. LEFEVRE.	2739 Harlem Av.	*Elementary Accounting.*

Edith G. Lenz.	516 E. 27th St.	*Govt. & Administration.*
Lillian M. Leslie.	1718 W. Fayette St.	*Business English.*
Chuan-heng Li.	2617 N. Calvert St.	*Corporation Finance; Elementary Accounting.*
Florence Levinson.	21 N. Broadway.	*Business English.*
Clarence Lippel.	Cumberland.	*Corporation Finance.*
Isabella Loewenson.	2015 Eutaw Pl.	*Political Economy.*
Albert Trout Long.	528 Rose Hill Terr.	*Corporation Finance.*
John F. Loos.	Woodlawn.	*Corporation Finance.*
Fanny Lyon.	3209 N. Charles St.	*Elementary Accounting.*
Honolulu Clair Manzer.	502 N. Carey St.	*Corporation Finance.*
Ernst G. Marr.	827 N. Eutaw St.	*Social Ethics.*
Irwin Mayer.	2237 Brookfield Av.	*Political Economy.*
Earl Mayes.	506 Continental Bldg.	*Elementary Accounting.*
Nora M. McCarthy.	2517 N. Charles St.	*Elementary Accounting.*
Alice B. Miller.	1509 E. Biddle St.	*Business English.*
Henry Clay Miller.	1423 Bolton St.	*Corporation Finance; Elementary Accounting.*
Henry S. Miller.	Esplanade Apts.	*Social Ethics.*
Joseph Hinton Miller.	3143 Abell Av.	*Elementary Accounting.*
Helen Clara Mohr.	2135 W. Baltimore St.	*Business English.*
Marvin Herbert Moore.	3925 Park Heights Av.	*Elementary Accounting.*
Raymond Lionell Moore.	Curtis Bay.	*Corporation Finance.*
Edward Allen Morris.	4411 Reisterstown Rd.	*Political Economy; Govt. & Administration.*
Oscar Moskowitz.	Brooklyn, N. Y.	*Govt. & Administration.*
John Henry Muhly.	Glenburnie.	*Business English.*
Gerard J. Muth.	Catonsville.	*Political Economy.*
Henry Edward Niles.	2010 Edgewood St.	*Social Ethics.*
George R. Ningard.	3410 Old York Rd.	*Elementary Accounting.*
Louis Norment.	846 W. 37th St.	*Elementary Accounting.*
Max A. Novey.	939 W. Baltimore St.	*Social Ethics.*
Joseph Ostovit.	1030 Ridgely St.	*Elementary Accounting.*
Burton E. Oppenheim.	907 Druid Lake Drive.	*Corporation Finance.*
Joseph F. Owens.	1009 St. Paul St.	*Salesmanship.*
Grace D. Parker (Mrs.)	913 St. Paul St.	*Elementary Accounting.*
Peter Peck.	108 W. 27th St.	*Corporation Finance.*
Edwin Helden Perkins.	1308 Light St.	*Elementary Accounting.*
Lee R. Peterson.	103 W. Monument St.	*Business English.*
Grace E. Pilson.	1302 E. Lexington St.	*Business English.*
William Plitt.	679 Columbia Av.	*Corporation Finance.*
William Poloway.	2029 Christian St.	*Corporation Finance.*
Alice Perry Poor.	2215 Elsinor Av.	*Salesmanship.*

EVELYN POWELL.	3911 Liberty Hts. Av.	*Corporation Finance.*
ADAM W. RADEB.	U. S. A. Hosp. No. 7.	*Advertising; Salesmanship.*
GEORGE G. REQUARD.	Hamilton.	*Social Ethics.*
W. EDGAR RHODES.	3403 Fairview Av.	*Business English.*
CLARE RICHARDS.	1521 Mt. Royal Av.	*Advertising.*
THOMAS W. RINEHART.	2922 N. Calvert St.	*Elementary Accounting.*
MARTIN ARNOLD ROBERTS.	2841 St. Paul St.	*Govt. & Administration.*
WILLIAM P. ROCHE.	119 N. Ellwood Av.	*Elementary Accounting.*
H. IRVIN ROGERS.	411 E. Lanvale St.	*Elementary Accounting.*
ROBERT H. ROHRABACK.	3438 Park Hgts. Av.	*Corporation Finance.*
STELLA ROSENSTEIN.	607 S. Broadway.	*Social Ethics.*
ERNEST THEODOR SALZER.	708 Newington Av.	*Business English.*
LUCILLE L. SCHAMBERGER.	3726 Greenmount Av.	*Govt. & Administration.*
GIOVANNI E. SCHIAVO.	135 N. Front St.	*Govt. & Administration.*
EDWARD G. SCHLAEFER.	Fort McHenry.	*Political Economy; Social Ethics.*
C. WILLIAM SCHNEIDEREITH.	3535 Newland Av.	*Advertising.*
CHRISTINE ALICE SCHULTE.	Rossville.	*Business English.*
WALTER SCOTT.	905 Lake Drive.	*Political Economy.*
JOHN GEORGE SEEBERGER.	34 E. Poultney St.	*Elementary Accounting.*
AUGUST T. SEIDENZAHL.	1612 N. Spring St.	*Elementary Accounting.*
EDGAR R. SELTZER.	4423 P'k Heights Av.	*Corporation Finance.*
ISRIEL MITCHELL SHAPIRO.	1409 E. Fayette St.	*Social Ethics.*
THOMAS P. SHERLOCK.	1521 Mt. Royal Av.	*Advertising.*
CHARLES B. SHERMAN.	1602 Rosedale St.	*Salesmanship.*
ALAN H. SHIPLEY.	Hamilton.	*Business English.*
ANNIE D. SHOEMACK.	1025 N. Broadway.	*Political Economy.*
ESTHER M. SHORTESS.	6237 Bellona Av.	*Political Economy.*
EMMA T. SHRIVER.	920 W. North Av.	*Elementary Accounting.*
ROBERTA LYON SHRIVER.	920 W. North Av.	*Elementary Accounting.*
OLIVE CARROLL SLATER.	305 Robert St.	*Advertising.*
GRACE EMILY SMITH.	911 N. Fremont Av.	*Political Economy.*
REGINALD EDWIN SMITH.	Hamilton.	*Corporation Finance.*
ROBERT R. SMITH, JR.	2759 Tivoly Av.	*Corporation Finance.*
ADAM GEORGE SNYDER, JR.	407 N. Linwood Av.	*Corporation Finance.*
ELMER L. SNYDER.	1513 W. Lanvale St.	*Corporation Finance.*
LAURAN DELK SOWERS.	Y. M. C. A.	*Corporation Finance.*
NELLIE LOUISE SPENCE.	626 Arlington Av.	*Business English.*
MARIE EMILIE STAIB.	1621 W. North Av.	*Social Ethics.*
WILLIAM B. STEWART.	123 Wylie Av.	*Salesmanship.*
WILLIAM G. STOCKHAUSEN.	1508 Battery Av.	*Political Economy.*
CATHARINE LOUISE STORTZ.	807 N. Luzerne Av.	*Elementary Accounting.*
PERCY L. STRAN.	4013 Belle Av.	*Business English.*

Rebekah Sugar.	140 E. Clement St.	*Social Ethics.*
Conrad Swearer.	1507 Poplar Grove St.	*Political Economy.*
Loretto Miles Tarbell.	2215 Elsinor Av.	*Salesmanship.*
Roger K. Taylor.	420 Forest Rd., R. P.	*Social Ethics.*
Paul Baker Thomas.	726 Y. M. C. A.	*Corporation Finance.*
Donigan Dean Towers.	4003 Fernhill Av.	*Corporation Finance; Elementary Accounting.*
Samuel Staley Tregellas.	1621 Eutaw Pl.	*Social Ethics.*
Andrew Herbert Troeger.	1828 Bolton St.	*Corporation Finance.*
Gertrude Estelle Tucker.	Boulevard Apts.	*Social Ethics.*
Myrtle M. Tucker.	1158 Longwood St.	*Business English.*
Adolph P. Vandermast.	Colgate.	*Corporation Finance.*
Charles C. Wacker.	Rognel Heights.	*Corporation Finance.*
Dorothy F. Wacker.	Catonsville.	*Corporation Finance.*
James Walling.	U. S. A. Hosp. No. 7.	*Advertising; Salesmanship.*
Joseph R. Walter.	1511 N. Caroline St.	*Govt. & Administration.*
Eli C. Wareheim.	Mt. Royal Apts.	*Business English; Corporation Finance.*
Marion Ellis Watkins.	2219 St. Paul St.	*Elementary Accounting.*
Charles A. Webb.	Earl Court Apts.	*Business English.*
Deborah L. Webster.	32 W. 25th St.	*Elementary Accounting.*
Wm. Werckenthien.	627 McCabe Av.	*Business English.*
Andrew B. Westerman.	36 N. Milton Av.	*Elementary Accounting.*
J. Taney White.	211 W. Woodland Av.	*Corporation Finance.*
Marjory Whitelock.	1419 Mt. Royal Av.	*Political Economy.*
Charlotte Williams.	Linwood Av.	*Advertising.*
Raymond C. Williams.	2408 Liberty Hgts. Av.	*Salesmanship.*
Nathaniel C. Wilson.	106 W. Saratoga St.	*Elementary Accounting.*
Henry Witz, Jr.	2301 Druid Hill Av.	*Corporation Finance.*
Lola B. Woodward.	1808 St. Paul St.	*Business English.*
Millard Fillmore Woolf.	2545 Frederick Av.	*Govt. & Administration; Political Economy.*
Preston W. Wright.	538 N. Linwood Av.	*Business English.*
Alan Wurtzburger.	Riviera Apts.	*Corporation Finance.*
Ursula R. S. Yeaworth.	Govans.	*Political Economy.*
Suekichi Yoshida.	2624 N. Calvert St.	*Corporation Finance; Govt. & Administration.*

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ATTENDANTS ON NIGHT COURSES FOR TECHNICAL WORKERS

CHEMISTRY 1—N
(GENERAL INORGANIC)

MARIEA ACKER.	1807 Bolton St.	[*Coll. Courses for Teachers.*]
JOHN T. BAMBERGER.	1302 N. Luzerne Av.	*Baltimore City College.*
CLARENCE CASE.	Roland Park.	*U. S. Hospital No. 7.*
MARGARET M. CORRIGAN.	333 E. 22nd St.	[*Coll. Courses for Teachers.*]
LUCY EAGLESTON.	Denmore Park.	[*Coll. Courses for Teachers.*]
C. M. FLEMING	1820 E. Eager St.	*Wiley & Co.*
LEWIS S. FORNEY.	3816 Dalrymple Av.	*Teachers' Training School.*
CAROLINE E. GROTE.	3202 Vickers Rd.	*Western High School.*
MARY J. HILLE.	314 E. 31st St.	[*Coll. Courses for Teachers.*]
MARY C. HOWARD.	1822 N. Calvert St.	[*Coll. Courses for Teachers.*]
ELEANOR KAIRYS.	873 Hollins St.	
FRANCIS LOOYMANS.	822 N. Montford Av.	*Tungsten Products Co.*
GRACE EMMA LOTZ.	2135 Mt. Holly St.	
SOLOMON MICHELS.	Fort McHenry.	*U. S. Army.*
GERTRUDE MOSES.	2002 Bolton St.	
ARTHUR H. VALENTINE.	1529 Byrd St.	*Bethlehem Steel Co.*
KATHARINE T. VALENTINE.	216 Myrtle Av.	[*Coll. Courses for Teachers.*]
SIDNEY H. WINSLOW.	2012 Kennedy Av.	*Tungsten Products Co.*

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CHEMISTRY 2—N
(QUALITATIVE AND QUANTITATIVE ANALYSIS)

JAMES A. BLACK.	804 N. Carey St.	*Hynson, Westcott & Dunning.*
HARRY M. BLINN.	2647 N. Charles St.	*Gambrill Flour Co.*
GORDON E. DAVIS.	2305 N. Calvert St.	*State Bacteriol. Lab.*
KARL GERBER.	2002 W. Pratt St.	
THOMAS J. HANLON.	1808 N. Bond St.	*Sta. O, Balt. P. O.*
CHARLES C. HESSELBACHER.	1815 Wilkens Av.	*M. S. Levy & Sons.*
MARY A. HILDEBRANDT.	516 N. Stricker St.	*Western High School.*
RUTH M. HILDEBRANDT.	516 N. Stricker St.	*Davison Chemical Co.*
HYMAN LIEBMAN.	6 N. Bond St.	*Bethlehem Steel Co.*
EDWIN G. LOEWER.	333 E. 28th St.	*Hess Steel Co.*
GLADYS MATTFELDT.	2408 Madison Av.	*Balt. Pearl Hominy Co.*
WILLIAM C. MCKENNA.	1107 Sterrett St.	*Emerson Drug Co.*

GERMAINE G. MUNDING.	3725 Morley St.	*Davison Chemical Co.*
CARL F. NUETZEL.	2508 E. Jefferson St.	*F. S. Royster Guano Co.*
GEORGE O. SMITH.	2025 E. North Av.	*Carr, Lowry Glass Co.*
ARTHUR H. WALZ.	Curtis Bay.	*Swift & Co.*
JOHN F. WROTEN.	2507 E. Federal St.	*Tungsten Products Co.*

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CHEMISTRY 3–N

(ORGANIC)

EDITH M. J. BARRETT.	4025 Belle Av.	*School of Hygiene.*
ANNE BOHNING.	821 N. Charles St.	
EMILY H. DAVIS.	Ten Hills.	*Health Dept., Balt.*
JOHN A. S. HAMMOND.	1810 Thomas Av.	*U. S. Industrial Chem. Co.*
JOHN HASLING. JR.	3118 W. North Av.	*Bartlett-Hayward Co.*
DAVID HERMON.	212 S. Exeter St.	*Bartlett-Hayward Co.*
EDWARD M. KENNARD.	1337 Poplar Grove St.	*Balt. Tube Co.*
MARIE L. KOCH.	2524 Maryland Av.	[*School of Hygiene.*]
ROBERT LEE MOYLAN.	1851 Harford Av.	*Bethlehem Steel Co.*
GLADYS NEWMAN.	4025 Belle Av.	[*School of Hygiene.*]
EILEEN F. ROACH.	611 Park Av.	
EDITH I. TRAIL.	2817 Parkwood Av.	*Pharmacist.*
JOSEPH O. WILSON.	2 E. 25th St.	*Baugh Chemical Co.*
MARY I. WYMAN.	3003 Mathews St.	[*Coll. Courses for Teachers.*]

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ELECTRICAL ENGINEERING 1–N

(ELEMENTS OF ELECTRICITY AND MAGNETISM; DIRECT CURRENT MACHINERY)

ROBERT C. BONTHRON.	911 S. East Av.	*Westinghouse Co.*
A. H. CHANDLER.	2412 Linden Av.	*Cons. Gas & Elec. Co.*
JOHN W. CROWLEY.	3015 W. North Av.	*Westinghouse Co.*
JAMES C. EBAUER.	1629 St. Paul St.	*Penna. R. R.*
GEORGE HERBERT FEICK.	206 S. Payson St.	*Balt. Tube Co.*
WILLIAM F. FITZPATRICK.	1008 William St.	*Balt. Dry Docks Co.*
ALBERT J. FRANKENBURG.	447 N. Kenwood Av.	*Balt. Dry Docks Co.*
KARL GERBER.	2002 E. Pratt St.	
ANDREW S. HAMILTON.	26 N. Luzerne Av.	*Cons. Gas & Elec. Co.*
EDWARD L. HARNER.	2711 Oak St.	
M. F. HARRIS.	Parkville.	*United Railways Co.*
ARTHUR LEE HART.	Gilman Apartments.	*Sanford & Brooks.*

CHARLES S. HILDEBRAND.	702 McCabe Av.	*Black & Decker, Towson.*
GILBERT F. KADAN.	743 N. Milton Av.	*Cons. Gas & Elec. Co.*
CHARLES EDWIN KEYSER.	5016 Elmer Av.	*United Railways Co.*
CHESTER O. KORFF.	U. S. A. Hosp. No. 7.	*U. S. A.*
FRANK M. MEREDITH.	Lauraville.	*Cons. Gas & Elec. Co.*
WILLIAM H. MILLER.	1210 E. Lafayette Av.	*Balt. & Ohio R. R.*
JOHN THOMAS MOONEY.	1937 Frederick Av.	*Balt. Dry Docks Co.*
RALPH B. POWERS.	2206 McCulloh St.	*U. S. Shipping Board.*
SIDNEY HOWLAND PRATT.	1308 N. Gilmor St.	*Balt. Polytech. Inst.*
LE ROY ROBINS.	1131 N. Harlem Av.	*Cons. Gas & Elec. Co.*
AUGUSTUS N. SCHOFER.	953 N. Gay St.	*Balto. City College.*
LOUIS SCHAPIRO.	104 N. Wolfe St.	*Bethlehem Steel Co.*
J. HOOPER SMITH.	315 E. North Av.	
WALTER STUMPF.	2420 Druid Hill Av.	*Black & Decker, Towson.*
JOHN J. THOMAS.	4409 Reisterstown Rd.	*United Railways Co.*
JAMES R. VANDLING.	U. S. A. Hosp. No. 7.	*U. S. A.*
J. LE ROY VANNEMAN.	827 Edmondson Av.	*United Railways Co.*
WILLIAM WITTELSBERGER.	Hamilton.	*Burroughs Adding Mach. Co.*

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ELECTRICAL ENGINEERING 2—N

(ELEMENTARY ALTERNATING CURRENTS)

THOMAS ARMSTRONG.	1237 Mt. Royal Av.	*Lord Electric Co.*
ELZA BRYANT FELTS.	3930 Lowndes Av.	*Balt. & Ohio R. R.*
FRANK GOLDENBERG.	816 Harford Av.	*Pa. Water & Power Co.*
JOSEPH M. HARRISON.	112 S. Mount St.	*Cons. Gas & Elec. Co.*
NATHAN B. HIGGINS.	2210 Lyndhurst Av.	*Pa. Water & Power Co.*
WILLIAM MARSHALL.	Catonsville.	*Pa. Water & Power Co.*
W. BENTHALL MOSHER.	25 E. 21st St.	
GEORGE C. MUEHLBERGER.	1810 Light St.	*Crown Cork & Seal Co.*
CARL EDWARD PLITT.	625 Cator Av.	*C. & P. Telephone Co.*
HENRY L. PRINCE.	4321 Ready Av.	*Cons. Gas & Elec. Co.*
HENRY O. SIMON.	1234 Carroll St.	*C. & P. Telephone Co.*
LOUIS W. SINGLETON.	12th St. & Ashland Av.	*Pa. Water & Power Co.*
GEORGE C. STIERHOFF.	2911 Brighton St.	*Union Shipbldg. Co.*
JOSEPH J. SWEENEY.	Middle River.	*C. & P. Telephone Co.*
WILLIAM TOOHEY.	350 Cathedral St.	*Calvert Hall College.*
H. CLAY WARD.	Waldorf Hotel.	

(16)

ELECTRICAL ENGINEERING 3–N

(ADVANCED ALTERNATING CURRENTS)

HORACE C. BUSHNELL.	The Avon.	*United Railways Co.*
CARROLL THOMAS.	1730 N. Calvert St.	*United Railways Co.*

(2.

MECHANICAL ENGINEERING 1–N

(MACHINE DESIGN)

WALTER W. ADDISON.	1519 W. Fayette St.	*Balt. Tube Co.*
CHARLES R. ANDERSON.	831 W. 34th St.	*Poole Eng. & Mach. Co.*
CARROLL D. EDGAR.	501 E. 22nd St.	*Bartlett-Hayward Co.*
THOMAS S. FITCHETT.	2009 Maryland Av.	
JOSEPH GESSFORD, JR.	2030 Huntingdon Av.	*Detrick & Harvey Co.*
WALTER H. GOERTZ.	1900 Poplar Grove St.	*Bur. of Drafting, City Hall.*
OSCAR R. HAENSLER.	2508 E. Baltimore St.	
HERBERT KERNGOOD.	Brooks Hall Apts.	*Alma Mfg. Co.*
EDWARD C. LUTHER.	1513 N. Fulton Av.	*United Railways Co.*
STEPHEN J. MATOSEC.	Curtis Bay.	*Balt. Car & Foundry Co.*
C. E. MOTSHMAN.	121 S. Gilmor St.	*Burroughs Adding Mach. Co.*
EDWIN RIDER.	415 Scott St.	
LEO SCHARFF.	141 Montebello Ter.	*Balt. Tin Decorating Co.*
WILLIAM C. STEIN.	601 N. Bond St.	
AUGUST STIEGLER,	829 N. Montford Av.	*Bartlett-Hayward Co.*
CHARLES R. WEST.	1732 E. Lafayette Av.	*Bethlehem Steel Co.*

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MECHANICAL ENGINEERING 3–N

(POWER PLANT DESIGN)

WILLIAM BENTON CARTER.	2743 Fenwick Av.	*Cons. Gas & Elec. Co.*
ROY B. EMMERT.	123 S. Ellwood Av.	*Balt. Copper Smelting Co.*
D. W. FRY.	809 Park Av.	*Balt. & Ohio R. R.*
EDWIN W. HORLEBEIN.	714 Dolphin St.	*E. J. Codd Co.*
RUSSELL S. LEARY.	4108 Belle Av.	*U. S. Indus. Alcohol Co.*
FERDINAND Z. PHELPS.	1212 Bolton St.	*U. S. Indus. Alcohol Co.*
HENRY L. PRINCE.	4321 Ready Av.	*Cons. Gas & Elec. Co.*
CASIMIR JOHN ROZMARY.	425 N. Glover St.	*Chemical War Serv., U. S. A.*
CHARLES S. RUEFFEL.	103 N. Frederick St.	*Balt. Dry Docks Co.*
WILLIAM H. SARBACHER.	1707 Covington St.	*City Engr. Dept.*
JOSEPH P. TOWSON.	1731 W. North Av.	*Bartlett-Hayward Co.*

(11)

MECHANICAL ENGINEERING 4—N

(GAS ENGINES—FIRST TERM)

H. GREENWAY ALBERT.	Govans.	
ORREN L. ANDREWS.	2704 Elsinor Av.	*Balt. Dry Docks Co.*
JOHN A. CRONIN.	2719 N. Charles St.	*International Motor Co.*
PAUL T. DAY.	1204 Bolton St.	*Poole Eng. & Mach. Co.*
DANIEL ELLISON.	512 Equitable Bldg.	
V. FRANCIS W. FORNARI.	1628 E. Lanvale St.	*Bethlehem Steel Co.*
WOOLFORD GRIFFITH.	1705 N. Charles St.	*Packard Motor Car Co.*
ALBERT G. HESSE.	1605 N. Patt'n Pk. Av.	*United Railways Co.*
JOHN PATRICK KELLY.	1934 Linden Av.	*Crown Cork and Seal Co.*
FRANK C. KOCH.	Woodbrook.	
GEORGE K. KRESS.	2410 E. North Av.	
BRADFORD D. KUHN.	Merville & Linw'd Aves.	*Packard Motor Car Co.*
HARPER MARLOW.	1627 Jackson St.	*Packard Motor Car Co.*
E. E. MCKENNA.	504 Woodbourne Av.	
J. A. MCKENNA.	Ready Av., Govans.	*Bartlett-Hayward Co.*
A. H. MCLEAN.	103 W. Lanvale St.	*Bartlett-Hayward Co.*
JOHN F. O'CALLAGHAN.	113 W. Mulberry St.	*Anti-Friction Belt Drsg. Co.*
CARL P. OWENS.	Overlea.	
BRESTLE A. RUPERT.	Govans.	*Poole Eng. & Mach. Co.*
CONRAD GEORGE SCHANZE.	2321 Harlem Av.	*U. S. R. R. Administration.*
ANDREW W. STEWART.	Central Y. M. C. A.	*Bartlett-Hayward Co.*

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MECHANICAL ENGINEERING 5—N

(HEAT ENGINES—SECOND TERM)

W. C. THAYER.	Woodlawn.	*Bartlett-Hayward Co.*
E. M. UNDERWOOD.	Brooklyn.	*Fairbanks, Morse & Co.*

(2)

MATHEMATICS 1—N

(TRIGONOMETRY; ANALYTIC GEOMETRY)

S. R. CHAMBERLAIN.	1415 Linden Av.	*Claiborne Johnston Co.*
HENRY A. KELLER.	222 S. Patter'n Pk. Av.	*Balt. Co. Surveyor's Office.*
S. RAYMOND MACLELLAN.	2807 Mt. Holly St.	*Dietrich Bros.*
HENRY CONRAD MILLER.	1013 S. Second St.	*Bethlehem Shipbldg. Co.*
BRESTLE A. RUPERT.	410 Markland Av.	*Poole Eng. & Mach. Co.*

GUSTAV SPAETH.	6006 Henderson Av.	*Balt. & Ohio R. R.*
WILLIAM STROTERHOFF.	3901 Fernwood Av.	*Geo. H. Wahmann Mfg. Co.*
FRANCIS J. TAYLOR.	106 Cold Spring Av.	*Bethlehem Shipbldg. Co.*
WHITRIDGE WARREN.	2200 Walbrook Av.	*Balt. & Ohio R. R.*
RALPH WITTLER.	1430 N. Bond St.	*United Railways Co.*

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(Total 155)

ATTENDANTS ON SUMMER COURSES, 1918

SARAH IRENE ADAMS. Hagerstown. 2608 *Maryland Av.*
Hagerstown High School. *English Composition* 2; *English Literature* 1; *French* 3.

CHARLES ADLER, JR. Baltimore. 1718 *Eutaw Pl.*
Johns Hopkins University. *Mathematics* 2 and 3.

ANNA CHRISTINA ALBERT. Baltimore. 112 *S. Ellwood Av.*
Baltimore Teachers Training School. *History* 3 and 4.

VIRGINIA ALCOCK. Baltimore. 2742 *St. Paul St.*
A. B., Wellesley College, 1918. *English Literature* 1 and 3.

GEORGE FREDERICK ALRICH. Annapolis.
E. E., Lafayette College, 1910; M. S., Lehigh University, 1912. *Fine Arts* 6.

EDNA ELIZABETH ANDERSON. Deal's Island. 2126 *N. Smallwood St.*
Deal's Island Central School. *Education* 13, 15, and 19.

MARGARET ELIZABETH ANDERSON. Deal's Island. 545 *N. Fulton Av.*
Deal's Island Central School. *Education* 12.

CARLOS VÁZQUEZ ARJONA. Annapolis. 2639 *Greenmount Av.*
University of Porto Rico. *Biology* 1; *French* 1; *History* 3.

JULIUS ASKIN. Baltimore. 1721 *Smallwood St.*
Maryland Institute. *Fine Arts* 1 and 2.

JOHN GREENE AUSTIN. Newton, Ala. 3028 *St. Paul St.*
A. B., Mississippi College, 1913. *Education* 1, 7, and 12.

CHARLES BENEDICT BACKMAN. Baltimore. 126 *Augusta Av.*
Baltimore University School of Law. *Economics* 2.

JEAN FRANCES BAIRD. Oak Bluffs, Mass. 511 *E. 42nd St.*
Nova Scotia Province Normal School. *Fine Arts* 3 and 5.

FRANCES ELIZABETH BALDWIN. Baltimore. 147 *W. Lanvale St.*
Goucher College. *French* 1; *German* 3 (a).

NATALIE BALLOU. Baltimore. 839 *Hamilton Terr.*
A. B., Roanoke Female College, 1890. *French* 1; *Spanish* 2.

CATHERINE D. BARNCORD. Corriganville. 849 *Hamilton Terr.*
Allegany County High School. *Education* 13; *French* 3; *Manual Training* 2.

WESLEY F. BARNES. Sykesville. 3506 *Elm Av.*
Education 11, 16, and 18.

NOLAND ELIAS BASLER. Carroll Co. *Hampstead.*
A. B., Western Maryland College, 1908. *Education* 6, 14, and 18.

MINGCHIEN JOSHUA BAU. Baltimore. 2627 *Maryland Av.*
A. B., Yale University, 1918. *French* 3; *History* 3; *Politics* 1.

GRACE BEASLEY. Baltimore. 3002 *Guilford Av.*
A. B., Chowan College, 1915. *French* 3.

GEORGIA BELT. Govans. 4909 *Crowson Av.*
A. B., Goucher College, 1915. *Education* 5 and 6; *Recreation* 2.

GEORGIE ROYSTON BELT (Mrs.) Govans. 4909 *Crowson Av.*
Maryland State Normal School. *Education* 15.

PETER JAMES BERNARDING. Catonsville. *St. Charles College.*
A. M., St. Mary's University (Balt.), 1918. *History* 2; *Latin Literature.*

CAROLYN GRACE BEVARD. Carroll Co. *Sykesville.*
Western Maryland College. *Education* 13 and 19; *Manual Training* 2.

ARTHUR HENDLEY BLAKEMORE. Senora, Va. 3014 *N. Calvert St.*
S. B., College of William and Mary, 1918. *Chemistry* 1; *German* 3 (*b*).

FANNIE BLAUSTEIN. Baltimore. 2312 *Callow Av.*
Teachers College, Columbia University. *Fine Arts* 2.

GEORGE OSCAR BLOME. Baltimore. 3915 *Maine Av.*
LL. B., University of Maryland, 1914. *English Composition* 3; *Philosophy* 1; *Psychology.*

WILLIAM BLOOM. Baltimore. 3310 *Auchentoroly Terr.*
Johns Hopkins University. *History* 3; *Philosophy* 2.

CONRAD FRIEDRICH ERNST BLUNCK. Lancaster, N. Y. 331 *E. 23rd St.*
A. B., Upsala College (N. J.), 1914; B. D., Princeton Theol. Seminary, 1914. *Chemistry* 1.

MARGARET DONALDSON BOEHM. Baltimore Co. *Roland Park.*
Johns Hopkins University. *Philosophy* 1 and 2.

ANNIE BONNEVILLE. Baltimore. 219½ *E. North Av.*
Johns Hopkins Training School for Nurses. *English Literature* 1.

GERTRUDE LEE BOONE. Baltimore. 2922 *Parkwood Av.*
Baltimore Teachers Training School. *English Composition* 1; *Manual Training* 1.

RHODA LINSTED REVELL BOONE. Baltimore. 3101 *N. Calvert St.*
St. Mary's Seminary (St. Mary's City). *English Composition* 1; *French* 2; *Philosophy* 2; *Recreation* 2.

JESSIE BOUSTEAD. Baltimore. 723 *W. North Av.*
Western High School. *History* 3; *Home Economics* 1 and 2.

WILLIAM WILLS BRADFORD, JR. Bel Air. 1318 *Bolton St.*
Episcopal High School (Va.). *Chemistry* 3; *Mathematics* 3.

FLETA MAY BRAGG. Gray, Ga. 2743 *N. Calvert St.*
Georgia Normal and Industrial College, 1916. *Education* 16 and 18; *French* 3.

HELEN MELINDA BREIDENBAUGH. White Hall. 2332 *E. North Av.*
Jarrettsville High School. *Education* 13, 15 and 19.

ANGELA MARIE BROENING. Baltimore. 16 *W. Lee St.*
Goucher College. *English Literature* 1; *History* 1 and 3.

ELLEGENE ADALYN BROWN. Princess Anne. 422 *W. Franklin St.*
Princess Anne High School. *Home Economics* 1, 2, and 3.

EDWARD ALLEN BROWNING. Friendsville. 3125 *N. Calvert St.*
Juniata College. *Chemistry* 3 (lectures); *History* 3.

CAROLINE NOEMIE BRYAN. Washington, D. C. 411 *Woodlawn Rd.*
Washington University. *Education* 15.

MARY PENELOPE BRYAN. Washington, D. C. 411 *Woodlawn Rd.*
Goucher College. *Education* 15 and 17; *English Composition* 1; *English Literature* 1.

IRENE ELIZABETH BULLEN. Baltimore. 3918 *Maine Av.*
Wilson College. *Latin Literature.*

THEORA JULIETTE BUNNELL. Baltimore. 339 *Bloom St.*
Goucher College. *History* 2.

DOROTHY MAY BURDETTE. La Plata. 1816 *N. Calvert St.*
Anne Arundel Academy. *Education* 15, 18, and 19.

DOROTHY SAUNDERS BURDICK. Baltimore. 2706 *Elsinore Av.*
A. B., Mt. Holyoke College, 1918. *Chemistry* 3.

FLORENCE HELEN BURNER. Baltimore. 2316 *Ruskin Av.*
Baltimore Teachers Training School. *Biology* 3; *German* 2.

EDGAR CHALFANT BYE. Baltimore. 5001 *Beaufort Av.*
A. B., Haverford College, 1915. *English Literature* 1 and 2.

DOMINICK J. DE CAESAR. Brooklyn, N.Y. 2733 *Maryland Av.*
Fordham University. *Biology* 2.

ELIZABETH MARY CAHILL. Princess Anne. 1308 *McCulloh St.*
Maryland State Normal School. *Education* 11, 14, and 18.

ALICE EVA CALDER. Baltimore. 419 *E. Lafayette Av.*
A. B., Goucher College, 1910. *Education* 6; *French* 3.

MARTHA EDNA CALDER. Baltimore. 419 *E. Lafayette Av.*
Baltimore Teachers Training School. *English Literature* 1; *French* 3.

HUGH WRIGHT CALDWELL. Cecil Co. *Chesapeake City.*
Tome Institute. *Education* 3 and 4.

ANNIE CATHERINE CAMPBELL. Pittsburgh, Pa. 3125 *N. Calvert St.*
A. B., Irving College (Pa.), 1907; A. M., Radcliffe College, 1912. *Education* 6; *History* 1.

HARRY LINGAN CAPLES. Baltimore Co. *Towson.*
A. B., Johns Hopkins University, 1908. *Education* 5; *English Literature* 1 and 2; *French* 2.

AGNES GILL CARLISLE. Baltimore. 1100 *W. Lafayette Av.*
Western High School. *English Composition* 3; *French* 3.

CARL ALLEN CARLSON. Nanticoke. 2735 *Maryland Av.*
Mansfield (Pa.) State Normal School. *Education* 2 and 9; *Manual Training* 1 and 3.

EDITH WHIPP CASE. Kingston, N. Y. 4217 *Fernhill Av.*
A. B., New York State College for Teachers, 1916. *Biology* 1; *Chemistry* 1.

EDWARD HAZEL CASHELL. Rockville. 2932 *St. Paul St.*
Johns Hopkins University. *Economics* 3; *French* 3; *Mathematics* 3.

EUGENIA CASPARI. Baltimore. *Beulah Villa Apts.*
Spanish 2 and 3.

EMMA CAULK. Sharpstown. 3014 *N. Calvert St.*
Maryland State Normal School. *Education* 2, 4, and 8; *English Literature* 1.

IDA VIRGINIA CAUTHORN. Hood's Mills. 106 *W. Saratoga St.*
Maryland State Normal School. *Education* 16; *Politics* 2.

EVA MARIE LA ROCHE JACQUELEIN CHATAIN. Balt. 2710 *Md. Av.*
Richmond Female Seminary. *English Composition* 3; *English Literature* 1.

INEZ RENÈ CHATAIN. Baltimore. 2710 *Maryland Av.*
Richmond Female Seminary. *Fine Arts* 3 and 5.

RUTH CHRISTINE CHEW. Carroll Co. *Patapsco.*
Western Maryland College. *Education* 17.

LOUISE CHILDS. Highland. *Ellicott City.*
Sherwood High School. *Education* 16; *French* 3.

MAYNARD ARTHUR CLEMENS. Baltimore. 2044 *Kennedy Av.*
S. B., Columbia University, 1913. *Economics* 2; *Education* 3; *Philosophy* 2.

MARGARET FULTON COE. Baltimore. *Station E.*
Johns Hopkins University. *Biology* 2; *Education* 14.

MARY CAROLINE COE. Baltimore. *Station E.*
Johns Hopkins University. *Biology* 2; *Education* 15.

ELLA J. CONNER (Mrs.) Chicago, Ill. 422 *N. Carey St.*
Western High School (Balt.). *Education* 12, 13, and 14.

WILLIAM ROBERT CORNELIUS CONNICK. Baden. 3026 *St. Paul St.*
Education 9 and 10; *Vocational Education* 1.

LILLA AUGUSTA CONREY. Baltimore Co. *Towson.*
Maryland State Normal School. *Education* 16 and 17; *English Literature* 2.

LULA SUMMERFIELD COOK. Baltimore. 1534 *Linden Av.*
Maryland State Normal School. *English Composition* 1 and 3.

MARY S. COOPER (Mrs.) Hillsboro. 3 *E. 27th St.*
A. B., Western Maryland College, 1908. *Education* 6 and 8; *English Literature* 3.

CLARENCE H. CORDREY. Queen Anne. 3028 *St. Paul St.*
B. S., St. John's College, 1908, and A. M., 1915. *Education* 3 and 9; *Manual Training* 1.

LILLIE BEATRICE CORKRAN. Oxford. 2706 *N. Charles St.*
Maryland State Normal School. *Education* 1 and 8; *Fine Arts* 6.

EDNA EARL CORRELL. Baltimore. 13 *W. Preston St.*
Baltimore Teachers Training School. *Recreation* 2.

MARY KATHARINE COX. Preston. 2617 *N. Charles St.*
Maryland State Normal School. *Education* 11, 14, and 16.

MARGERY PATTERSON CRAIG (Mrs.) Baltimore. 3421 *Guilford Terr.*
B. L., National Park Seminary, 1900. *French* 3.

CATHERINE ELIZABETH CRAPSTER. Taneytown. 2706 *N. Charles St.*
Millersville (Pa.) State Normal School. *Education* 7 and 16; *History* 3.

ELLEN LONG CRAPSTER (Mrs.) Taneytown. 1527 *Edmondson Av.*
Irving College (Pa.). *History* 3; *Home Economics* 1 and 2.

IRMA VIRGINIA CROMWELL. Anne Arundel Co. *Brooklyn.*
Maryland State Normal School. *Eductaion* 16 and 18; *French* 3.

LILLIE HANDY DALBY. Shelltown. 527 *N. Gilmor St.*
Pocomoke City High School. *Education* 13, 17, and 19.

OCTAVIA AMELIA DALLAM. Baltimore. 1318 *Bolton St.*
Western High School. *Spanish* 3.

SARA BUNN DAMPMAN. Point Pleasant, N. J. 2116 *N. Calvert St.*
Columbia University. *English Literature* 1 and 3.

LEONORE DAVIS. Govans. 5004 *York Rd.*
Maryland State Normal School. *Recreation* 2.

MARY ELIZABETH DAVIS. Federalsburg. 2617 *N. Charles St.*
A. B., Western Maryland College, 1913. *Education* 5 and 6; *English Literature* 3.

AUGUSTA DELLONE. Baltimore Co. *Overlea*
Baltimore Teachers Training School. *English Composition* 3; *English Literature* 3; *History* 3.

HOWARD MARTIN DENT. Prince George's Co. 3026 *N. Charles St.*
S. B., Maryland Agricultural College, 1894. *Vocational Education* 1 and 2.

DOROTHY WILMER DILL. Chestertown. 2735 *Maryland Av.*
Chestertown High School. *Education* 11, 15, and 18.

AUGUSTA F. DITTY. Baltimore. 1600 *Eutaw Place.*
Johns Hopkins University. *Economics* 3; *English Literature* 2; *History* 3.

EDNA LEOLA DIXON. Baltimore. 2206 *Elsinore Av.*
Western High School. *Economics* 1; *Education* 9; *History* 3.

MARGARET BANKS DORSEY. Roland Park. 207 *Hawthorn Rd.*
Roland Park Country School. *Chemistry* 3; *French* 3.

HILDA NORTH DULAC (Mrs.) Baltimore. *University Apts.*
George Washington University. *History* 3 and 4; *Economics* 1.

HELEN MACKINTOSH DUSHANE. Baltimore. 4304 *Greenway.*
Affordby Normal School. *Education* 17; *English Composition* 3; *French* 3.

ARTHUR MILLER EASTER. Baltimore. 2410 *N. Charles St.*
LL. B., University of Maryland, 1898. *English Literature* 1.

JESSIE MAY EBAUGH. Reisterstown. 700 *W. North Av.*
A. B., Goucher College, 1904. *Education* 4 and 7; *History* 3.

MARY OLIVE EBAUGH. Reisterstown. 700 *W. North Av.*
A. B., Goucher College, 1907. *Education* 7; *Economics* 1; *History* 1.

EMMA STAKEMAN EBELING (Mrs.) Roland Pk. 329 *Hawthorn Rd.*
French 3.

IONA ISABEL EDWARDS. Baltimore. 703 *Reservoir St.*
A. B., Goucher College, 1908. *French* 1, 2, and 3.

LEONARD EISENBERG. Baltimore. *Lake Court Apts.*
Baltimore City College. *Chemistry* 3; *Mathematics* 3.

ALICE A. EISENBRANDT. Baltimore Co. *Mt. Washington.*
Columbia University. *English Literature* 1, 2, and 3.

JOAN DOROTHY ELIASBERG. Baltimore. *Emersonian Apts.*
Goucher College. *Economics* 1; *History* 1; *Politics* 1.

ELIZABETH FORD ELLENDER. Baltimore. 1536 *N. Gilmor St.*
Western High School. *Fine Arts* 6.

ESTHER PARKER ELLINGER. Baltimore. 14 *W. 25th St.*
A. M., University of Pennsylvania, 1917, and Ph. D., 1918. *Education* 2 and 6; *English Composition* 1 and 2.

ALFRED EPSTEIN. Los Angeles, Cal. 605 *N. Wolfe St.*
Johns Hopkins University. *History* 3.

IDA SCHUMACHER FALCONER (Mrs.) Baltimore. 6 *E. Read St.*
Western High School. *French* 3.

NATHAN ISAAC FALK. Baltimore. 606 *S. Hanover St.*
Maryland Institute. *Fine Arts* 1 and 2.

ALBERT L. FARVER. Cambridge. 2613 *Maryland Av.*
Maryland State Normal School. *Manual Training* 1 and 3.

FLORENCE STRATTON FAULK. Monroe, La. 2625 *Maryland Av.*
Tulane University. *Chemistry* 1; *Home Economics* 1 and 3.

FREDERIC C. FISCHER. Baltimore. 1041 *St. Paul St.*
Johns Hopkins University. *French* 1; *History* 1.

CLARA BROOKS FISHPAW. Richwood, W. Va. *Cockeysville.*
A. B., Central University, 1901; A. M., Bethany College, 1912. *Education* 1, 2, and 4; *Spanish* 3.

ROBERT FONTZ. Prince George's Co. *Mitchellville.*
St. Michael's High School. *English Literature* 3; *French* 3; *Mathematics* 3.

LEWIS SMYSER FORNEY. Baltimore. 3816 *Dalrymple Av.*
Baltimore Teachers Training School. *Economics* 3; *English Literature* 1; *History* 2 and 3.

JAMES LUTHER FOWLE. Washington, D. C. 869 *Park Av.*
A. B., Davidson College, 1918. *English Literature* 3; *History* 2; *Philosophy* 2.

IVY LAMORA FOWLER. New Windsor. 2746 *Alameda Av.*
A. B., New Windsor College, 1910. *Education* 14, 16 and 18.

HAMILTON PHILLIPS FOX. Baltimore. 753 *W. Fayette St.*
William and Mary College. *History* 2; *Philosophy* 2; *Semitics* 2.

ELIZABETH JOHNSON FRIES (Mrs.) Baltimore. *Homewood Apts.*
A. B., University of Cincinnati, 1896; B. S., Columbia University, 1909. *French* 3.

GERTRUDE A. S. GALE. Baltimore. 1524 *Park Av.*
Home Economics 1.

CAROLINE R. GAMBRILL. Howard Co. *Ellicott City.*
A. B., Goucher College, 1916. *Education* 4, 5, and 6.

NORA REGINA GEARY. Lonaconing. 2721 *N. Charles St.*
St. Mary's High School (Lonaconing). *Education* 15 and 16; *French* 3.

CLARA CELESTE GIBBONS. Baden. 2614 *N. Charles St.*
Westwood Academy. *Education* 5 and 6.

ROBERTA GOLDSBOROUGH GLOVER. Baltimore. 2507 *Maryland Av.*
Western High School. *Fine Arts* 5 and 6.

ROBERTA GRACE GODDARD. Hutchinson, Kan. 2309 *Roslyn Av.*
Bonner Springs (Kan.) High School. *Education* 15; *French* 3; *Manual Training* 2.

JOSÉ M. GONZALES. Baltimore. *Arundel Apts.*
Maryland State College of Agriculture. *Fine Arts* 2 and 5.

JACOB GRAPE. Baltimore. 333 *E. 22nd St.*
B. S., Johns Hopkins University, 1918. *Education* 1 and 3; *History* 1.

LEON GREENWALD. Baltimore. 526 *N. Chester St.*
Johns Hopkins University. *History* 3; *Spanish* 3.

ERMA VERNAL GSELL. Clearspring. 3506 *Elm Av.*
Clearspring School. *Education* 17; *Manual Training* 1 and 3.

FRANCIS BERNARD GWYNN. Clinton. 3026 *St. Paul St.*
A. B., St. John's College, 1907. *Education* 11, 12, 15, and 18.

ELIZABETH VIRGINIA HAMMOND. Baltimore. 417 *Laurens St.*
Randolph-Macon Woman's College. *Fine Arts* 3 and 5.

NELLIE DAVIS HANCOCK (Mrs.) Baltimore. 3614 *Springdale Av.*
A. B., Goucher College, 1914. *Education* 5, 6, and 7.

ETTA BRIDGETTE HANIGAN. Howard Co. *Woodstock.*
Maryland State Normal School. *Education* 11, 16, and 18.

MARY HELEN HARMAN. Hanover. 3026 *St. Paul St.*
Education 14 and 17; *Fine Arts* 5.

REXFORD BELL HARTLE. Cecil Co. *Port Deposit.*
Ph. B., Franklin and Marshall College, 1912. *Education* 2, 4, and 10.

HAROLD LE ROY HARVEY. Baltimore. 2935 *St. Paul St.*
Maryland Institute. *Chemistry* 3.

ESTHER MAY HAUGHT. Buckhannon, W. Va. 3125 *N. Calvert St.*
L. B., West Virginia Wesleyan College, 1911. *Education* 8; *Latin Literature.*

THOMAS WILLIAM HAUGHT. Buckhannon, W.Va. 210 *E. 31st St.*
A. B., West Virginia University, 1896; M. A., West Virginia Wesleyan College, 1916, and Dean. *Chemistry* 1 and 3 (lectures).

LOUISE CURTISS HAVENS. Shelter Island Heights, N. Y.
(Mrs. George R. Havens, Jr.) 2503 *Maryland Av.*
Indiana University. *Education* 14 and 16; *French* 2.

ANNA ELIZABETH HAWKINS. Anne Arundel Co. *Brooklyn.*
Maryland State Normal School. *Education* 11, 14, and 16.

WILLIAM BALTHASER FREDERICK HAX. Roland Pk. 325 *Roland Av.*
Princeton University. *Chemistry* 1.

HEBER MICHEL HAYS. Broadway, Va. 2623 *Maryland Av.*
A. B., University of Virginia, 1908; A. M., University of Chicago, 1912, and Ph. D., 1915. *English Literature* 1; *History* 2 and 3.

GENE HERBERT. Stevensville. 413 *N. Stricker St.*
Stevensville High School. *Education* 16 and 18; *Spanish* 3.

JOHN HILL. Norwich, Conn. 311 *Courtland St.*
B. S., Connecticut Agricultural College, 1916. *Education* 2; *Vocational Education* 1 and 2; *Psychology.*

AUGUSTA RICHARDSON HOBBS (MRS.) Baltimore. 2407 *Ellamont St.*
Randolph-Harrison School. *French* 2.

IRVIN HOFFMAN. Baltimore. 2001 *Madison Av*
Fine Arts 5 and 6.

RUTH HOOK. Baltimore. 1327 *N. Eden St.*
Eastern High School. *Education* 11 and 15; *Manual Training* 2.

KATHARINE BAIRD HOPPER. Baltimore. 3708 *Duvall Av.*
Goucher College. *English Composition* 2; *English Literature* 1.

DORRIS SOULE HOUGH. New Bedford, Mass. 3101 *N. Calvert St.*
A. B., Wellesley College, 1909. *Philosophy* 1 and 2; *Politics* 2.

MARGARET LOUISE IMWALD. Baltimore. 108 *W. Fort Av.*
Recreation 2.

ALVEY M. ISANOGLE. Thurmont. 3026 *St. Paul St.*
A. B., St. John's College, 1898. *Education* 11; *History* 1 and 3.

YASUSHI ISHIGAMI. Asaka, Japan. *Central Y. M. C. A.*
Osaka High School. *Chemistry* 3; *French* 3; *Mathematics* 3.

MIRIAM JARVIS. Washington, D. C. *Washington.*
A. B., Iowa Wesleyan College, 1917. *Recreation* 2.

WILEY WILLARD JENKINS. Westminster. 319 *Belvedere Av.*
Education 9 and 10.

HELEN ELIZABETH JONES. Atlanta, Ga. 2614 *N. Charles St.*
Chemistry 3; *English Composition* 3; *Psychology.*

RICHARD BRADLEY JONES. Davidsonville. 4247 *Park Heights Av.*
Valparaiso University. *Chemistry* 3; *Education* 11 and 16.

ROSENA C. JONES (Mrs.) Baltimore. 717 *N. Fulton Av.*
Wilmington Conference Academy. *Education* 13, 14, and 18.

CLAUDE A. KEITH. Swainsboro, Ga. 2808 *N. Calvert St.*
University of Georgia. *Education* 2; *French* 3; *Philosophy* 2.

HELEN L. KELLEY (Mrs.). Baltimore. 217 *E. Lafayette Av.*
Eastern High School. *Education* 11 and 15; *Manual Training* 2.

MAY MARTIN KEMP. Trappe. *Greenmount Av. and 33rd St.*
A. B., Western Maryland College, 1896. *Education* 8 and 13; *History* 1.

MARION KIDD. Buffalo, N. Y. *Washington.*
A. B., Barnard College, Columbia University, 1917. *Recreation* 2.

REVERDY ELI KIEENY. Middletown. 2708 *N. Charles St.*
A. B., Roanoke College, 1904, and A. M., 1905. *Education* 9 and 10; *History* 3.

HOWARD WALTER KING. Baltimore. 2024 *N. Smallwood St.*
English Composition 1 and 3; *Philosophy* 1.

WILLIAM MORSE KISHPAUGH. Harrisburg, Pa.
B. S., Maryland State College, 1916. *Vocational Education* 1.

HENRY JOHN KLAUNBERG. Baltimore. 600 *N. Milton Av.*
Baltimore City College. *Chemistry* 3.

EVA OLIVIA KNADLER. Westminster. 102 *N. Poppleton St.*
Westminster High School. *Education* 11, 15, and 16.

MARIE LOUISE KOCH. Baltimore. 2524 *Maryland Av.*
Western High School. *Chemistry* 3.

GRACE AMANDA KRAMER. Baltimore. 319 *E. 25th St.*
Education 2.

RUTH A. KRAMER. Baltimore. 319 *E. 25th St.*
A. B., Goucher College, 1916. *Biology* 2.

LOUISE LACEY. Sykesville. *Ellicott City.*
Maryland State Normal School. *Education* 11, 15, and 17.

GEORGE SIDNEY LACHMAN. Baltimore. 1412 *Laurens St.*
Johns Hopkins University. *History* 3; *Philosophy* 2; *Spanish* 3.

NANNIE L'ALLEMAND. Baltimore. 2429 *N. Calvert St.*
Maryland State Normal School. *Fine Arts* 3 and 4.

CARRIE ELIZABETH LA MOTTE. Manchester. 606 *St. Paul St.*
Irving Institute. *Education* 11, 15, and 17.

JOSEPH ALLEN LANGDON. Carroll Co. *Linwood.*
Myersville High School. *Education* 16, 18, and 19.

BERTHA LAZARON. Baltimore. *Etna Apts.*
A. B., University of Cincinnati, 1915. *English Literature* 1; *History* 3.

NANNIE CHEW LE COMPTE. Cambridge. 227 *W. Monument St.*
Education 11 and 12.

VIRGINIA LEE. Bristow, Va. 3002 *Guilford Av.*
Education 15.

LILYAN REDFERN LEIGHTON (Mrs.) Oswego, N. Y.
Michigan Normal College. *English Literature* 1; *History* 3.
3101 *N. Calvert St.*

LYDA ELIZABETH LEITCH. Cedar Hill. 430 *N. Carrollton Av.*
Education 11, 13, and 14.

KATHARINE LIGGETT. Lewisburg, Tenn. 317 *E. 31st St.*
B. S., George Peabody College, 1914. *Chemistry* 1 and 3 (lectures); *Spanish* 2.

EDNA KATE LIGHTER. Middletown. 2706 *N. Charles St.*
Middletown High School. *Education* 15 and 17.

RUDOLF WILLIAM LOCHER. Baltimore. 1300 *E. Fayette St.*
Eden Theological Seminary (St. Louis), 1918. *Semitics* 1.

PEARL LONG. Parsons, W. Va.
Fine Arts 5 and 6.

ALBERT CLAY LUTZ. Williamsport. 444 *E. 20th St.*
A. B., Roanoke College, 1907. *Education* 9 and 10.

JANET MACKENZIE. Greenville, S. C. *Washington.*
Training College for Teachers, Glasgow, Scotland. *Education* 11, 12, and 15.

ALICE GERTRUDE MALLALIEU. Baltimore. 3807 *Bonner Rd.*
A. B., Goucher College, 1899. *Education* 6; *French* 3.

MATILDA BACKUS MALOY (Mrs.) Baltimore. 1041 *N. Eutaw St.*
Eastern High School. *Biology* 1; *Psychology; Spanish* 3.

ETHEL BAILE MANAHAN. Westminster. 5018 *Palmer Av.*
Westminster High School. *Chemistry* 3; *Education* 16.

FRANCES JOSEPHINE MANN. Baltimore. 3110 *N. Calvert St.*
Baltimore Teachers Training School. *Education* 11; *French* 2; *History* 2.

NATHA ANNETTE MANN. Baltimore. 3110 *N. Calvert St.*
Baltimore Teachers Training School. *Education* 11; *English Literature* 2; *Philosophy* 2.

ERNST GOTTHART MARR. Baltimore. 827 *Hamilton Terr.*
M. D., Baltimore Medical College, 1913. *French* 1; *Psychology.*

SARAH A. MARSHALL. Anne Arundel Co. *Brooklyn.*
Maryland State Normal School. *Education* 11, 14, and 16.

MARY MCCULLOH. Point Pleasant, W.Va. *Catonsville.*
A. B., Ohio University, 1916. *English Literature* 1.

BESSIE MCKENNA. Midland. 643 *S. Linwood Av.*
St. Joseph's Academy. *Education* 11, 12, and 14.

CHARLES MCMULLEN. Lancaster, Pa. 2413 *E. North Av.*
Millersville (Pa.) Normal School, 1890. *French* 2.

CLARA PAMELIA HODGES MCPHERSON (Mrs.) Balt. 2221 *Barclay St.*
Western Maryland College. *Education* 11, 14, and 17.

EMMA HASELTINE MECHEM. Baltimore. 1311 *Mt. Royal Av.*
French 1 and 2.

LILIAN MAY MEINL. Baltimore. 1817 *N. Mount St.*
Goucher College. *Fine Arts* 2 and 5.

LOUISE GRANVILLE HENRY MEIXELL. Baltimore. 1411 *Linden Av.*
Goucher College. *Chemistry* 3; *German* 2 and 3 (*a*).

LAURA MELVIN. Denton. 1213 *John St.*
Education 13 and 15.

FRANCES BENSON MERRICK. Sudlersville. 2727 *Maryland Av.*
A. B., Western Maryland College, 1908. *Education* 6 and 7.

GRACE ANN MERRYMAN. Hampstead. 907 *W. Franklin St.*
Education 17; *English Composition* 3.

ANNIE CATHERINE MEUSHAW. Govans. 812 *Winston Av.*
Western High School. *Economics* 1; *Education* 7 and 14.

EMMA F. MILLER (Mrs.). Taneytown. *Y. W. C. A.*
Frederick High School. *Education* 15 and 17; *History* 2.

JACOB EDWARD MILLER. Baltimore 408 *N. Milton Av.*
Johns Hopkins University. *French* 3.

RUTH DUVALL MILLER. Baltimore. 505 *Franklin Terr.*
Eastern High School. *Fine Arts* 5 and 6.

MATTIE MORNING MITCHELL. Swainsboro, Ga. 2743 *N. Calvert St.*
Swainsboro High School. *Chemistry* 3; *French* 3.

HADASSAH JOANNA MOORE. Sandy Spring. 14 *E. Franklin St.*
George School, Pa. *Economics* 2; *Education* 12; *Philosophy* 2.

MARY HUBBARD MOORE. Cambridge. 1611 *N. Smallwood St.*
Cambridge High School. *Education* 13, 18, and 19.

EDGAR A. MORGAN. Jewett, Ill. 2827 *Walbrook Av.*
A. B., University of Illinois, 1906. *Education* 1; *History* 1 and 3.

PHINEAS MORRIS. Aberdeen. 1922 *Cecil Av.*
Ph. B., Dickinson College, 1905. *Education* 4 and 10.

LOUISA DAVIS MORRISON. Baltimore. 3314 *Elgin Av.*
Western High School. *Fine Arts* 5 and 6.

CARRIE E. G. MOSES (Mrs. Abram Moses). Balt. 1803 *Eutaw St.*
Goucher College. *English Composition* 1; *Fine Arts* 3.

ELIZABETH LUCINDA MOSS. Govans. *York Road.*
Corcoran Art School. *Fine Arts* 2 and 5.

HELEN CONSTANCE MOSS. Govans. *York Road.*
Fine Arts 2 and 5.

CAROLINE BATTEE MULLIKIN. Baltimore. 1316 *Eutaw Place.*
A. B., Goucher College, 1913. *Education* 9 and 10.

ISABELLE BROMWELL MULLIKIN. Trappe. 607 *Cator Av.*
Trappe High School. *English Composition* 3; *English Literature* 3; *French* 3.

LAWRENCE DIXON MURPHY. Washington, D. C. *Washington.*
Catholic University. *Biology* 2; *Chemistry* 1.

THEODORE JESSE MYERS. Carroll Co. *Lineboro.*
Education 14 and 19; *Manual Training* 2.

HENRY EDWARD NILES. Baltimore. 2010 *Edgewood St.*
Johns Hopkins University. *History* 2; *Philosophy* 2.

CARRIE MAY NINER. Westminster. 414 *S. Font Hill Av.*
Maryland State Normal School. *Education* 16, 18, and 19.

ETHEL NORRIS. Baltimore. 1925 *Linden Av.*
Maryland State Normal School. *Fine Arts* 1 and 2.

MARY ELIZABETH NUTTLE. Hobbs. 3 *E. 27th St.*
Education 15 and 16; *Manual Training* 2.

OTTO RUDOLPH ORTMANN. Baltimore. 1713 *Fairmount Av.*
Peabody Conservatory of Music. *English Composition* 3; *French* 3.

JOHN WHITFIELD OWENS. Baltimore. *Gilman Apts.*
Economics 1; *History* 3; *Politics* 1.

CARRIE ROMAINE PANEBAKER. Westminster. 849 *Hamilton Terr.*
Education 15 and 17; *French* 3.

MARGARET ADELAIDE PFEIFFER. Baltimore. 1014 *W. Lanvale St.*
A. B., Western Maryland College. *Education* 4; *French* 3; *History* 3.

WOODLAND CRISFIELD PHILLIPS. Howard Co. *Savage.*
Education 3 and 4.

CLEO HAZEL PITTINGER. Union Bridge. 1011 *Warden St.*
Maryland State Normal School. *Education* 15 and 17; *French* 3.

HILDA ELIZABETH PLITT. West Arlington. 4008 *Belvieu Av.*
Maryland Institute. *Fine Arts* 1 and 2.

EVA LLEWELLEN POOLE. Quincy, Fla. 2611 *Maryland Av.*
Education 12, 15, and 16.

FAITH WALTON PORCH. Barnesville, Ga. 2743 *N. Calvert St.*
Gordon College. *Education* 8; *Latin Literature; Philosophy* 2.

ALEXANDER GIBSON PORTER. Roland Park 422 *Roland Av.*
Gilman Country School. *Fine Arts* 5 and 6.

ALICE DUDEK PRICE. Harford Co. *Aberdeen.*
A. B., Goucher College, 1917. *Education* 5; *English Literature* 1; *French* 2.

MARY B. RAIRIGH (Mrs.) Denton. 1064 *Falls Rd.*
Caroline High School. *Education* 11, 14, and 16.

MARY JANE RANK (Mrs.) Frostburg. 3123 *N. Calvert St.*
Frostburg High School. *Education* 11, 12, and 14.

MARGARET ELIZABETH REILLY. Frostburg. 513 *N. Carrollton Av.*
Maryland State Normal School (Frostburg). *Education* 5 and 8.

ELIZABETH CATHERINE REMMERT. Baltimore. 3033 *Guilford Av.*
Spanish 2 and 3.

MILDRED DUKER REQUARDT (Mrs.) Baltimore. *Latrobe Apts.*
Girls' Latin School. *English Composition* 1.

ANNA IONIA RIDGELY. Manchester. 3511 *Chestnut Av.*
Education 11, 15, and 19.

DAVID HENDERSON RIELY. Baltimore. 2808 *N. Calvert St.*
Baltimore Polytechnic Institute. *French* 3.

MARGARET E. RIEVE. Odenton. 1106 *Battery Av.*
Annapolis High School. *Education* 15, 16, and 17.

EVELYN JACKSON RINKER. Carroll Co. *Westminster.*
Western Maryland College. *Education* 15 and 17; *Education* 2.

ANNA MAUDE ROBERTS. Baltimore. 1408 *Park Av.*
Cornell University. *Education* 11 and 16; *English Literature* 3.

SARAH LUCY ROCHE. Baltimore. 1815 *E. Lombard St.*
Johns Hopkins University. *Biology* 1 and 3; *German* 3 (*b*).

MARY ELISE ROE. Greensboro. 863½ *W. Lombard St.*
Greensboro High School. *Education* 14, 16, and 18.

CAROLINE WALTERS ROGERS (Mrs.) Baltimore. 2326 *N. Charles St.*
French 1, 2, and 3.

BELLE ROWLEN. Canton, O. 1003 *McCulloh St.*
A. B., Wooster University. *French* 1, 2, and 3.

MARY ELIZABETH ROYER. Westminster. 5018 *Palmer Av.*
Westminster High School. *Chemistry* 3; *Education* 16; *French* 3.

ARTHUR C. RUBENSTEIN. Baltimore. 2313 *Callow Av.*
Baltimore City College. *Chemistry* 3; *Mathematics* 3.

WILLIAM SENER RUSK. Roland Park. 110 *Elmwood Rd.*
A. B., Princeton University, 1915. *English Literature* 1; *History* 3.

ERNST THEODORE SALZER. Baltimore. 708 *Newington Av.*
English Composition 2 and 3.

LUCY EDITH SANDERS (Mrs.) Manassas, Va. 2617 *N. Charles St.*
B. S., George Washington University. *Education* 15 and 16; *Recreation* 2.

LOUISA BLANCHE SANK (Mrs.) Highlandtown. 3400 *E. Balt. St.*
Psychology.

IRENE A. SAYMAN. Baltimore Co. 111 *Glen Av., Arlington.*
Fine Arts 3 and 5.

EMMA ADALINE SCHAD. Baltimore. 1636 *John St.*
Johns Hopkins University. *English Composition* 1; *History* 3; *Philosophy* 2.

HARRY SCHAD. Baltimore. 1636 *John St.*
B. S., Johns Hopkins University, 1917. *Education* 3; *History* 3; *Politics* 1.

MOLLIE SCHAFFER. Baltimore. 2566 *McCulloh St.*
Baltimore Teachers Training School. *English Literaure* 3; *History* 4.

LUCILLE LOUISE SCHAMBERGER. Baltimore. 3726 *Greenmount Av.*
Baltimore Teachers Training School. *History* 3 and 4.

GIOVANNI ERMENEGILDO SCHIAVO. Baltimore. 135 *N. Front St.*
Johns Hopkins University. *English Composition* 3; *History* 2.

GEORGE GOTTLIEB SCHNEPFE. Baltimore. 126 *N. Calhoun St.*
LL. B., University of Maryland, 1910. *French* 1 and 2; *Spanish* 3.

WILLIAM JACOB SCHNEPFE. Baltimore. 126 *N. Calhoun St.*
Chemistry 1.

SOPHIE SEYFERTH. Baltimore. 4200 *Harford Av.*
Teachers College, Droyssig bei Zeitz, Germany. *Education* 4; *Spanish* 1 and 2.

MURRAY MARTIN SEYMOUR. Trappe. 1316 *N. Charles St.*
Johns Hopkins University. *English Composition* 2; *Mathematics* 2 and 3.

JACOB HIRAM SHAMBERGER. Baltimore. 1654 *N. Appleton St.*
Education 7.

WILLIAM WATSON SHAMER. Carroll Co. *Patapsco.*
Franklin High School, Reisterstown. *Education* 16, 18, and 19.

ISAAC KELLER SHANK. Hagerstown. 3133 *N. Calvert St.*
Washington County High School. *Education* 2, 8, and 9.

GEORGIA DAY SHERWOOD. Baltimore. 2131 *N. Calvert St.*
Baltimore Teachers Training School. *English Composition* 3.

MARGARET SHIPLEY. Howard Co. *Hanover.*
Girls' Latin School, Baltimore. *Education* 11, 15, and 17.

CECILIA MARGARET SHOWER. Manchester. 606 *St. Paul St.*
Maryland State Normal School. *Education* 11 and 14; *Manual Training* 2.

MOLLIE F. SHUGER. Baltimore. 136 *S. Patterson Pk. Av.*
Maryland Institute. *Fine Arts* 1 and 2.

BERTHA SARAH SHULL. Greensboro. 1627 *N. Milton Av.*
Maryland State Normal School. *Education* 11 and 17; *Fine Arts* 5.

RUTH HINMAN SIRICH. Baltimore. 3400 *Clifton Av.*
Recreation 2.

MARY LUCETTA SISK. Baltimore Co. *Glyndon.*
B. S., Teachers College, Columbia University, 1916. *Education* 14, 16, and 19.

BERNARD HENRY SKAHILL. Dubuque, Iowa. *St. Charles College, Catonsville.*
A. B., Dubuque College, 1914. *German* 3 (*a*); *Latin Literature.*

ELIZABETH REINHART SKALSKI (Mrs.) Balt. 2508 *N. Calvert St.*
Girls' Latin School. *French* 3; *History* 1; *Manual Training* 1.

OLIVE CARROLL SLATER. Baltimore. 305 *Robert St.*
Johns Hopkins University. *Education* 2; *Philosophy* 1; *Psychology.*

URSULA SLAUGHTER. Denton. 1914 *Mosher St.*
St. Mary's Seminary. *Education* 2, 11, and 18.

MARY LOUISE SMALL. Washington, D. C. 2704 *N. Charles St.*
A. B., University of Tennessee, 1917. *Chemistry* 1.

GLADYS ROBERSON SMITH. Ridgely. 2735 *Maryland Av.*
Northfield Seminary. *Education* 4 and 6.

JACOB KELLER SMITH. Carroll Co. *Union Bridge.*
B. S., Maryland State College, 1911. *Education* 4; *Manual Training* 1; *Vocational Education* 1.

MARY RUTH SMITH. Frederick. 1211 *Madison Av.*
Frederick Girls' High School. *Education* 13 and 14.

ORON PATRICK SOUTH. Cullman, Ala. 300 *E. 31st St.*
B. S., Alabama Polytechnic Institute, 1911. *History* 1, 2, and 3.

LAURA VIRGINIA SPENCER. Rocks. 501 *Rossiter Av.*
Jarrettsville High School. *Education* 13, 15, and 19.

SARAH ELIZABETH STARLINGS. Baltimore. 3641 *Greenmount Av.*
Baltimore Teachers Training School. *Education* 14 and 18.

NICHOLAS ADRIAN STEFFEN. Dubuque, Iowa.
A. B., Dubuque College, 1912. *Education* 8; *Latin Literature.*
St. Charles Coll., Catonsville.

CHARLES FRANCIS STEIN, JR. Baltimore.
Johns Hopkins University. *Economics* 1; *History* 3.
Lake Drive and Lake View Av.

J. FRED STEVENS. Centreville. 3028 *St. Paul St.*
Washington College (Normal Dept.), 1902. *Education* 1 and 7.

MARY ELIZABETH STEWART. Baltimore. 14 *E. Franklin St.*
Oxford High School. *Education* 11, 16, and 18.

WILLIAM ALFRED PARTRIDGE STRANG. Girdletree. 2112 *N. Charles St.*
College of the City of New York. *Education* 4, 7, and 10.

WILLIAM LOUIS STRAUS, JR. Baltimore. *Alhambra Apts.*
Harvard University. *Economics* 1; *History* 3; *Mathematics* 3.

MINNIE HARRISON STRAYER. Baltimore. 107 *N. Carey St.*
English Composition 1, 2, and 3.

HARRIET WILSON STROBEL. Baltimore. 2110 *Brookfield Av.*
Maryland Institute. *Fine Arts* 1 and 2.

JESSIE BELLE SUITT. Baltimore. 1731 *N. Washington St.*
Education 16; *Fine Arts* 6; *French* 3.

DELIA CARROLL SUTTON (Mrs.) Baltimore. 318 *E. 20th St.*
Eastern High School. *Education* 11 and 15; *Manual Training* 2.

GEORGE BRADLEY SYBERT. Howard Co. *Elkridge.*
Loyola College. *Chemistry* 1.

GROVER CLEVELAND TAYLOR. Carroll Co. *Westminster.*
Franklin High School, Reisterstown. *Education* 2 and 13.

HELEN STEDMAN TEEPLE. Baltimore Co. *Glyndon.*
Franklin High School, Reisterstown. *Education* 2, 5, and 6.

CATHERINE BOWIE CLAGETT THOMAS (Mrs.) Baltimore.
B. S., Johns Hopkins University, 1918. *Biology* 1.
2424 *N. Calvert St.*

LILLIAN NATALINE THOMAS. Baltimore. 6 *N. Monroe St.*
Centreville High School. *Education* 11, 16, and 18

ERIC BERESFORD TOWNSEND. Roland Park. *Poplar Hill.*
Johns Hopkins University. *French* 1; *Mathematics* 2.

BELL BAKER TREIDE (Mrs.) 3498 *Auchentoroly Terr.*
A. B., Goucher College. *French* 2 and 3.

ALMIRA JAMES UTZ. Port, Va. 1221 *Poplar Grove St.*
Bridgewater College. *Education* 11, 15, and 19.

KATHERINE THERESA VALENTINE. Baltimore. 216 *Myrtle Av.*
Maryland State Normal School. *History* 4; *Semitics* 2.

LENA CHEW VAN BIBBER. Baltimore. 129 *E. North Av.*
B. S., Teachers College, Columbia University, 1917. *Economics* 1; *Education* 7 and 16.

EMMA FRANCE WARD. Baltimore. 4210 *Maine Av.*
A. B., Goucher College, 1909. *Economics* 1; *History* 1; *Politics* 2.

NELLIE AGNES WARD. Paris. 1717 *W. Lafayette Av.*
Education 11, 13, and 14.

LETTILDA IRENE WAREHEIM. Baltimore. 3022 *Belmont Av.*
Asbury Normal School. *Recreation* 2.

CLINTON CARROLL WATERS. Germantown. 2932 *St. Paul St.*
Germantown High School. *Economics* 3; *French* 3.

LOIS RUSSELL WATSON. Sunderland. 1427 *W. Lafayette Av.*
Maryland State Normal School. *Education* 11, 13, and 14.

CHRISTOPHER RUDOLPH WATTENSCHEIDT. Balt. 3220 *Carlisle Av.*
LL. B., University of Maryland, 1902. *Psychology.*

GILMORE ROTH WEBBER. Decatur, Ill. 2114 *N. Charles St.*
Chicago Lutheran Theological Seminary. *Biology* 1 and 2.

KATHERINE ELEANOR WEBSTER. Baltimore. 900 *Madison Av.*
Western High School. *Education* 2, 14, and 18.

MARIE ANTOINETTE WEIDENHAMMER. Balt. 213 *S. Calhoun St.*
Baltimore Teachers Training School, 1906. *English Literature* 3; *French* 3; *History* 3.

HORATIO TRACY WENTZ. Carroll Co. *Lineboro.*
Education 11, 15, and 19.

JAMES POLLARD WHARTON. Baltimore. 1307 *Linden Av.*
Johns Hopkins University. *English Composition* 1; *Philosophy* 1 and 2.

MARY REBECCA WHITMORE. Carroll Co. *Westminster.*
A. B., Western Maryland College, 1915. *Education* 2 and 6; *History* 1.

HARRY LEE WIESNER. New York City. 4019 *Woodbine Av.*
Baltimore City College. *Spanish* 1, 2, and 3.

HATTIE MAE WILLET. Westminster. 3244 *Abell Av.*
Westminster High School. *Biology* 1; *Education* 18; *Fine Arts* 6; *History* 3.

RUTH SEDWICK WILLIAMS. Prince Frederick. *Mt. Washington.*
St. Mary's Seminary. *Education* 11, 13, and 14.

VIRGINIA ELIZABETH WILLIAMS. Frostburg. 513 *N. Carrollton Av.*
Maryland State Normal School (Frostburg), 1911. *Education* 11, 15, and 16.

MARGUERITE BALLS WIRTH. Baltimore. *Guilford Terr.*
Western High School. *Manual Training* 1 and 3.

CARL GEORGE WOLF. Baltimore Co. *Hamilton.*
A. B., Capitol University, 1907. *Philosophy* 1 and 2; *Semitics* 2(*a*).

LOUIS ELIZABETH WOODEN. Baltimore. 1107 *Edmondson Av.*
Western High School. *Education* 15 and 18.

EVA MYRTLE WOOLFORD. Baltimore. 2122 *E. Lombard St.*
Baltimore Teachers Training School, 1917. *Biology* 1; *History* 3; *Philosophy* 1.

MARY DUKER WOOTERS (Mrs.) Queen Anne. 2001 *Callow Av.*
Eastern High School. *Education* 6, 8, and 18.

ELEANOR WRIGHT. Baltimore. 2723 *St. Paul St.*
English Literature 1; *French* 3; *History* 3.

ROBERT HENCE YOUNG. Lexington, Va. 2704 *N. Charles St.*
Washington and Lee University. *Biology* 1; *History* 2 and 3.

(326)

PUPILS IN DEMONSTRATION SCHOOL

Grade IV.....33 Grade VI.....43
Grade V.....29 Grade VII.....42
Grade VIII.....34

(181)

GOVERNMENT OF THE UNIVERSITY

FOR THE YEAR, 1918-19

TRUSTEES

The Trustees are the ultimate source of authority in all matters pertaining to the University. They act collectively, through the standing committees named on page 10, and through the President of the University.

PRESIDENT

The duties of this office were thus defined by the Trustees, September 14, 1876:

The President of the University is the authorized means of communication between the Board and the various officers of instruction and administration employed in the University; it shall be his duty to consult with the Professors in respect to the development of their various departments and the general interests of the University; to determine the appropriate duties of the Associates and Fellows; and to exercise such superintendence over the buildings, apparatus, books and other property as will insure their protection and appropriate use. In respect to these matters and all others which concern the welfare of the University, he shall consult frequently with the Executive Committee, and he shall attend the meetings of the Board of Trustees. Purchases, alterations, repairs, and other incidental expenses must not be ordered by any of the officers of the University without his previous assent or the expressed authority of the Board.

By resolution of the Trustees, May 2, 1892, the President of the University was constituted a member *ex officio* of the Board, and also *ex officio* a member of the Executive Committee.

ACADEMIC COUNCIL

F. J. Goodnow (*Pres.*)	J. W. Bright	J. H. Hollander
Paul Haupt	H. S. Jennings	J. C. W. Frazer
Henry Wood	A. O. Lovejoy	W. H. Howell
J. S. Ames (*Sec'y*)	W. W. Willoughby	J. H. Latané
Maurice Bloomfield		(*ex officio*)

By authority of the Trustees, the Academic Council has met since the organization of the University to guide the various departments of study, to select the Fellows, and to act upon such other matters as may be brought before them.

BOARD OF UNIVERSITY STUDIES

F. J. Goodnow (*Pres.*)
Paul Haupt
W. H. Welch
Maurice Bloomfield
Henry Wood
W. H. Howell
J. W. Bright
J. S. Ames
Frank Morley
H. F. Reid
R. W. Wood
K. F. Smith *
J. H. Hollander
E. B. Mathews
J. M. Vincent
W. W. Willoughby
D. S. Johnson
Hermann Collitz
H. S. Jennings
E. F. Buchner
J. B. Watson
E. A. Andrews
B. E. Livingston
M. L. Raney
A. O. Lovejoy
J. B. Whitehead
G. E. Barnett
D. M. Robinson
C. C. Thomas
C. J. Tilden
J. H. Latané
C. W. E. Miller (*Sec'y*)
K. Dunlap
J. C. W. Frazer
E. E. Reid
E. W. Berry
C. Grave
S. O. Mast
W. Kurrelmeyer
C. D. Snyder
A. H. Pfund
B. F. Lovelace
A. G. Christie
J. C. French
A. Ember
A. Cohen
R. V. D. Magoffin
G. R. Jones †
R. B. Roulston
J. T. Singewald
D. S. Blondheim
W. B. Kouwenhoven
J. H. Bringhurst
W. A. Patrick
J. H. Gregory

By request of the Academic Council (October 8, 1883), this Board, consisting of the President, Professors, and Associate Professors, has charge of the arrangements for the instruction of graduate students and of the examinations for the degree of Doctor of Philosophy.

BOARD OF COLLEGIATE STUDIES

F. J. Goodnow (*Pres.*)
Henry Wood
H. E. Greene
L. S. Hulburt
J. S. Ames
W. J. A. Bliss
K. F. Smith *
J. H. Hollander
E. B. Mathews
J. M. Vincent
W. P. Mustard
E. F. Buchner
E. A. Andrews
J. B. Whitehead
C. K. Swartz
G. E. Barnett
M. P. Brush §
D. M. Robinson
C. C. Thomas
C. J. Tilden
J. H. Latané (*Dean*)
J. E. Gilpin (*Sec'y*)
K. Dunlap
G. R. Guild
C. Grave
W. Kurrelmeyer
J. C. French
A. Cohen
R. V. D. Magoffin
R. B. Roulston
H. Slonimsky
G. Gruenbaum
R. T. Abercrombie
E. Miller
A. H. Pfund

By request of the Academic Council (May 13, 1892), the Board of Collegiate Studies, consisting of the President and of representatives from each of the chief departments of undergraduate study, confers upon the progress made by the undergraduate and special students, and conducts the examinations for matriculation and for the baccalaureate degree, under the direction of the Academic Council. The other teachers of undergraduates may be called in from time to time to consult.

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* Died December 6, 1918.
† Died December 22, 1918.
§ Until March 25.

The following committees are authorized by the Board: ***Academic Rules and Regulations,***—J. E. Gilpin, R. B. Roulston, R. T. Abercrombie; ***Admission and Advanced Standing,***—J. A. Latané (chairman), E. F. Buchner, H. E. Greene, L. S. Hulburt, W. P. Mustard, R. B. Roulston, J. B. Whitehead; ***College Curriculum,***—J. A. Latané (chairman), G. E. Barnett, W. J. A. Bliss, J. C. French, J. E. Gilpin, L. S. Hulburt, and C. J. Tilden; ***Scholarships and Honors,***—J. E. Gilpin (chairman), R. B. Roulston, A. Cohen; ***Student Affairs,***—J. C. French (chairman), J. S. Ames, C. K. Swartz; ***Summer Courses and College Courses for Teachers,***—E. F. Buchner (chairman).

The Dean is *ex officio* a member of all committees.

ADVISORY BOARD OF THE MEDICAL FACULTY

F. J. Goodnow (*Pres.*)	J. J. Abel	W. Jones
W. H. Welch	W. H. Howell	J. Howland
H. M. Hurd	J. W. Williams (*Dean*)	W. G. MacCallum
W. S. Halsted	A. Meyer	W. S. Thayer
H. A. Kelly	W. H. Smith	

This Board was constituted by resolution of the Trustees (April 3, 1898), "to report to the Trustees from time to time their suggestions, and to prepare and carry forward the proper arrangements for the instruction and graduation of medical students."

ADVISORY COMMITTEE OF THE DEPARTMENT OF ENGINEERING

F. J. Goodnow (*Pres.*)	C. J. Tilden	J. C. W. Frazer
J. S. Ames	J. B. Whitehead (*Sec'y*)	W. W. Ford
Frank Morley	E. B. Mathews	G. R. Guild
C. C. Thomas	J. H. Latané	A. G. Christie

This committee was constituted by a resolution of the Trustees May 9, 1913. It consists of the President of the University, certain members of the Faculty representing engineering and cognate sciences, and the Dean of the College Faculty.

BOARD OF ENGINEERING STUDIES

F. J. Goodnow (*Pres.*)	J. H. Bringhurst	M. W. Pullen
C. C. Thomas	J. B. Whitehead	J. C. Smallwood
C. J. Tilden	J. E. Gilpin	F. W. Lee
W. J. A. Bliss	J. C. French	C. E. Coolidge
L. S. Hulburt	A. G. Christie	
W. B. Kouwenhoven	J. H. Gregory	

This committee, appointed annually, acts for the Advisory Committee on all questions pertaining to undergraduate instruction in engineering.

ADVISORY BOARD OF THE FACULTY OF HYGIENE AND PUBLIC HEALTH

Frank J. Goodnow (*Pres.*)	C. J. Tilden	W. W. Ford
W. H. Welch (*Director*)	E. V. McCollum	C. G. Bull
W. H. Howell (*Asst. Director*)	Raymond Pearl	R. W. Hegner

By resolution of the Board of Trustees this Board is "instructed to report to the Trustees from time to time their suggestions and to prepare and carry forward the proper arrangements for the instruction and graduation of students in the School."

ADVISORY COMMITTEE ON THE DEGREE OF BACHELOR OF SCIENCE

F. J. Goodnow (*Pres.*)	J. E. Gilpin	A. Meyer
G. E. Barnett	L. S. Hulburt	W. P. Mustard (*Sec'y*)
E. F. Buchner	J. H. Latané	J. B. Watson
W. W. Ford	A. O. Lovejoy	H. Wood
J. C. French		

This committee was constituted by resolution of the Trustees June 1, 1915, and subsequently enlarged, to supervise the course of study leading to the degree of Bachelor of Science.

COMMITTEE IN CHARGE OF THE COLLEGE COURSES FOR TEACHERS

E. F. Buchner (*Chairman*) Henry Wood
Eleanor L. Lord (for Goucher College)

OFFICERS OF ADMINISTRATION OF THE SUMMER COURSES

F. J. Goodnow (*Pres.*) T. R. Ball
E. F. Buchner (*Director*) W. G. Boyce

COMMITTEE ON THE LIBRARY

F. J. Goodnow (*Pres.*)	E. B. Mathews	W. P. Mustard
J. S. Ames	W. W. Willoughby	M. L. Raney (*Sec'y*)

COMMITTEE ON HOMEWOOD

R. B. Keyser	M. P. Brush	W. G. Boyce (*Sec'y*)
F. J. Goodnow	E. B. Mathews	E. H. Bouton
Blanchard Randall	W. W. Willoughby	Howard Baetjer
Miles White, Jr.	C. J. Tilden	T. E. Straus
John Glenn, Jr.	M. L. Raney	J. P. Thom
W. J. A. Bliss		

ADVISORY BOARD OF THE YOUNG MEN'S CHRISTIAN ASSOCIATION

F. J. Goodnow (*Pres.*) J. A. Latané
Eugene Levering John McDowell

OTHER OFFICERS

REGISTRAR OF THE UNIVERSITY
Thomas R. Ball

REGISTRAR OF THE MEDICAL SCHOOL
George J. Coy

TREASURER'S ASSISTANT
Henry Iddins

SECRETARY OF THE JOHNS HOPKINS PRESS
Christian W. Dittus

SECRETARY OF THE SCHOOL OF HYGIENE AND PUBLIC HEALTH
Mary Louise Durham

LIBRARIES

1. THE UNIVERSITY LIBRARY numbers 212.661 bound volumes, selected with especial reference to the instruction here given. It is arranged in several collections, of which these are the chief:

Reading Room	Romance Languages
Philosophy, Psychology, and Education	Mathematics
History	Physics and Astronomy
Political Economy and Political Science	Chemistry
Classics, Art, and Archæology	Geology and Civil Engineering
Sanskrit	Biology
Semitic	Medical Sciences
English and German	Hygiene
	Electrical and Mechanical Engineering

The Reading Room is open daily from 9 a. m. to 6 p. m.; the other rooms in accordance with special regulations.

The library receives the publications of the leading scientific societies of the world and the chief literary and scientific periodicals. The whole number of serials received exceeds twenty-three hundred. The list is supplemented by those of the Peabody Institute and other institutions, so that the whole number of journals accessible (exclusive of ephemeral publications) approaches three thousand. Important books are received by the library as soon as published, through purchase or the courtesy of dealers.

2. THE PEABODY LIBRARY is a choice collection of books purchased since 1861. It is particularly full in academic transactions, long historical series, and costly illustrated books. It numbers 237,693 volumes and pamphlets, well bound, catalogued, and arranged. It is open daily, without charge, from 9 a. m. to 10 p. m.

3. THE ENOCH PRATT FREE LIBRARY numbers 366,116 volumes and is open daily without charge.

4. THE MARYLAND HISTORICAL SOCIETY LIBRARY contains 46,134 volumes of historical works and is open daily.

5. Other libraries of Baltimore are the New Mercantile Library (93,792 volumes), the Bar Library (41,000 volumes), the Medical and Chirurgical Library (33,500 volumes), the Maryland Diocesan Library (30,500 volumes).

6. Washington is so near that its museums and libraries may be easily visited. Among the chief institutions of interest to students are these:

The Library of Congress.
The Smithsonian Institution and National Museum.
The Army Medical and Surgical Museum and Library.
The U. S. Coast and Geodetic Survey.
The U. S. Geological Survey.
The U. S. Naval Observatory.
The Libraries of the Departments and Bureaus.
The Corcoran Art Gallery.

PUBLICATIONS OF THE JOHNS HOPKINS PRESS

I. American Journal of Insanity

This journal is edited by E. N. Brush, J. M. Mosher, C. K. Clarke, C. M. Campbell and A. M. Barrett. It appears quarterly. The seventy-sixth volume is in progress. Subscriptions $5 per year (foreign postage 50 cents).

II. American Journal of Mathematics

This journal was commenced in 1878, under the editorial direction of Professor Sylvester. It is now edited by Frank Morley, with the coöperation of A. Cohen, Charlotte A. Scott, A. B. Coble and other mathematicians. Forty volumes of about 400 pages each have been issued, and the forty-first is in progress. It appears quarterly. Subscription $6 per year (foreign postage 50 cents).

III. American Journal of Philology

The publication of this journal commenced in 1880. It is under the editorial direction of Professors Gildersleeve and Miller. Thirty-nine volumes of about 450 pages each have been issued, and the fortieth is in progress. It appears four times yearly. Subscription $3 per volume (foreign postage 50 cents).

IV. Beiträge zur Assyriologie und semitischen Sprachwissenschaft

The publication of this journal was begun in 1889. Professor Paul Haupt, of the Johns Hopkins University, and Professor Friedrich Delitzsch, of the University of Berlin, are the editors. Volume X is in progress.

V. Hesperia

Schriften zur germanischen Philologie, edited by Professors Hermann Collitz and Henry Wood; Schriften zur englischen Philologie, edited by Professor James W. Bright. Thirteen numbers have been issued.

VI. Elliott Monographs in the Romance Languages and Literatures

This publication is edited by Professor Edward C. Armstrong. Subscription $3 per series. Six numbers have appeared.

VII. The Johns Hopkins Hospital Bulletin

The publication of this Bulletin began in 1889. It is published monthly. Volume XXX is in progress. Subscription $3 per year (foreign postage 50 cents).

VIII. The Johns Hopkins Hospital Reports

These Reports are edited by the Medical Faculty of the University, and published for the Johns Hopkins Hospital. Their publication was begun in 1890. Volume XVIII is in progress. Subscription $5 per volume (foreign postage 50 cents).

IX.. Johns Hopkins University Circular, including the Annual Register, President's Report, and Medical Department Catalogue

The publication of the Circular began in December, 1879, and 314 numbers have since been issued. It is edited by T. R. Ball, Registrar. Issued monthly, except August and September. Subscription $1 per year.

X. Johns Hopkins University Studies in Education

These Studies are edited by Professor Edward F. Buchner and Dr. C. Macfie Campbell. The publication of these monographs began in 1917, and two numbers have appeared.

XI. Johns Hopkins University Studies in Historical and Political Science

The publication of these monographs was begun in 1882, under the editorial direction of Professor H. B. Adams. The Studies are now under the direction of the departments of History, Political Economy, and Political Science. Thirty-six series are complete, and the thirty-seventh series is in progress. A number of extra volumes have also been issued. Subscription $3.50 per volume.

XII. Modern Language Notes

This journal is edited by Professors J. W. Bright, as Editor-in-Chief. M. P. Brush, W. Kurrelmeyer and G. Gruenbaum. It appears eight times yearly. The thirty-fourth volume is in progress. Price $3 per year (foreign postage 50 cents).

XIII. Reprint of Economic Tracts

Professor J. H. Hollander, editor. Fourth series in progress. Subscription $2.

XIV. Reports of the Maryland Geological Survey

These Reports are under the editorial direction of Professor E. B. Mathews, Director of the Survey.

XV. Terrestrial Magnetism and Atmospheric Electricity

This journal is edited by Dr. L. A. Bauer. It appears quarterly. Volume XXIV is in progress. Subscription $3 per year (foreign postage 25 cents).

Some of the principal separate publications issued by the Johns Hopkins Press are:

THE PHYSICAL PAPERS OF HENRY A. ROWLAND. 716 pages, royal octavo. $7.50.

PHOTOGRAPHIC REPRODUCTION OF THE KASHMIRIAN ATHARVA-VEDA. Edited by Professor Bloomfield. 3 vols., folio. $50.

EARLY DIPLOMATIC RELATIONS BETWEEN THE UNITED STATES AND MEXICO. By W. R. Manning. 418 pages, 12mo. $2.25.

EARLY DIPLOMATIC RELATIONS BETWEEN THE UNITED STATES AND JAPAN, 1853-1865. By Payson J. Treat. 468 pages, 12mo. $2.50.

THE WEST FLORIDA CONTROVERSY, 1798-1813. By Isaac Joslin Cox. 702 pages, 12mo. $3.00.

FOUR PHASES OF AMERICAN DEVELOPMENT. By John Bassett Moore. 218 pages, crown 8vo. $1.50.

SELECTIONS FROM THE EARLY SCOTTISH POETS. By William Hand Browne. 240 pages, 12mo. $1.25.

THE TAILL OF RAUF COILYEAR. Edited by William Hand Browne. 164 pages, 8vo. $1.00.

THE ECLOGUES OF BAPTISTA MANTUANUS. By W. P. Mustard. 156 pages, crown 8vo. $1.50.

THE ECLOGUES OF FAUSTIUS ANDRELINUS AND JOANNES ARNOLLETUS. By W. P. Mustard. 123 pages, crown 8vo. $1.50.

THE PISCATORY ECLOGUES OF JACOPO SANNAZARO. By W. P. Mustard. 94 pages, crown 8vo. $1.00.

THE CREED OF THE OLD SOUTH. By Basil L. Gildersleeve. 128 pages, crown 8vo. $1.00.

THE HAGUE PEACE CONFERENCES OF 1899 AND 1907. By James Brown Scott. Vol. I, *The Conferences*, 887 pages, 8vo; Vol. II, *Documents*, 548 pages, 8vo. $5.00.

DISTURBING ELEMENTS IN THE STUDY AND TEACHING OF POLITICAL ECONOMY. By James Bonar. 156 pages, 12mo. $1.00.

STUDIES IN HONOR OF BASIL L. GILDERSLEEVE. 527 pages, 8vo. $6.00.

STUDIES IN HONOR OF A. MARSHALL ELLIOTT. Two volumes, 8vo., 450 and 334 pages. $7.50.

AN OUTLINE OF PSYCHOBIOLOGY. By Knight Dunlap. Second edition, 145 pages, 84 cuts, 8vo. $2.00.

THE J. E. ALDRED LECTURES ON ENGINEERING PRACTICE FOR 1916-1917, 254 pages, and 1917-1918, 236 pages. Octavo.

DISSERTATIONS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY IN THE JOHNS HOPKINS UNIVERSITY.

TREASURER'S OFFICE, BUDGET APPROPRIATIONS, FOREIGN SHIPMENTS, ETC.

I. The Treasurer's Office is open from 9 a. m. to 4.30 p. m., except on Saturday, when it is closed at 1 p. m.

II. For the several departments an annual allowance is made by the Trustees in the budget, and in deciding on the allowances they are governed by a consideration of the general interests of the University, as well as by the needs of special branches of instruction. A statement of the amount of the allowances and expenditures will be communicated to the several departments at intervals throughout the academic year, and special statements may be obtained at any time from the Treasurer upon request.

III. No member of the academic staff may incur a bill in the name of the University, unless authority is given for the same by the Trustees, in advance, either as an allowance in the annual budget, or as a special appropriation. Blank forms of application are provided for special requisitions.

IV. All bills should be *promptly* endorsed as correct by the person under whose authority the expense has been incurred and then referred to the Treasurer's Office for payment.

V. The Treasurer's Office will make purchases, at wholesale rates, of general supplies which are required for the current needs of the University, and the departments are expected to secure such supplies from the Treasurer's Office by requisition.

VI. Such petty cash books as are authorized by the Treasurer should be presented for balance and settlement every month.

VII. The wages of all persons employed by the University will be paid at the Treasurer's Office unless otherwise arranged.

VIII. When C. O. D. packages are expected, previous arrangements should be made for their reception.

IX. Outlays made for individuals (express parcels, postage, telegraph messages, etc.) are payable at once at the Treasurer's Office.

X. FOREIGN SHIPMENTS. All foreign shippers should be instructed to mail a Consular Invoice and a bill of lading, and a duplicate Consular Invoice by the following mail, all addressed to The Johns Hopkins University.

Goods for other parties (societies or individuals) must *not* be included in the University cases. Consignments must *not* be addressed to individuals if they are intended for the University and are to be entered through the Customs for University use.

Unless otherwise ordered, goods from Europe should be sent by steamer *direct to Baltimore* as follows:

From Germany by the North German Lloyd steamers sailing for Baltimore from Bremen; from England by steamship lines from Liverpool to Baltimore; from France and Italy. via Havre and Liverpool.

GENERAL STATEMENTS IN RESPECT TO THE COURSES OF INSTRUCTION

The Johns Hopkins University has had in view, from the beginning, two main objects—the advancement of learning through investigations conducted by its teachers and its properly qualified students, and the communication of learning through carefully planned courses of instruction. The facilities which it provides and its methods of administration are intended both for the encouragement of research, in the case of those competent to undertake it, and for the discipline and guidance of those whose chief concern is the acquisition of knowledge. The work of the University is carried forward—

I. Under the Faculty of Philosophy.

II. Under the Faculty of Medicine.

III. Under the Faculty of Hygiene and Public Health.

IV. Under the Faculty of Engineering.

I. The students enrolled under the Faculty of Philosophy are:

(1) Those who have obtained baccalaureate degrees from colleges of good standing, and who desire to follow advanced courses in scientific, literary, or historical subjects; and also persons who wish to take advantage of the opportunities for study and individual investigation here afforded, and who satisfy the instructors or professors concerned that they are prepared for such work. Women are admitted to these courses.

(2) Undergraduate students, who are, in most cases, looking forward to the degree of Bachelor of Arts, but some of whom are engaged in special studies without reference to graduation. Women are not admitted to the undergraduate courses.

The requirements for admission to the undergraduate courses, the arrangement of these courses, etc., are stated on subsequent pages. Further information is given in the pamphlet entitled "The College of Arts and Sciences of the Johns Hopkins University."

(3) Teachers in public and private schools, persons engaged in other pursuits, and others wishing to pursue courses of collegiate grade in the late afternoons and evenings and on Saturday mornings. Work accomplished in these courses will be credited, upon matriculation, toward the degree of Bachelor of Science. Women are admitted on the same terms as men.

Students registered primarily in other divisions of the University may register also in these courses, and, for satisfactory work in the same, receive credit towards the degrees for which they are matriculated.

Under a plan of co-operation with Goucher College, credits obtained in these courses, to the extent of forty-five hours, may be offered by women matriculating for the degree of Bachelor of Arts conferred by that institution.

Detailed information is given in the special announcement of the "College Courses for Teachers." See also the requirements for the degree of Bachelor of Science on subsequent pages of this Register.

(4) Persons seeking opportunities for instruction during the summer. Men and women are admitted to such courses as they are found by the respective instructors qualified to pursue with advantage. The program includes courses which may be offered in partial fulfillment of the requirements for the degrees of Master of Arts, Bachelor of Arts, Bachelor of Science, and Bachelor of Engineering.

Detailed information is given in the special announcement of the Summer Courses. See the requirements for the various degrees on later pages of this Register.

(5) Persons engaged in affairs or contemplating entrance into business, desirous of pursuing evening courses of collegiate grade in the general field of Business Economics. Work accomplished in these courses will be credited, upon matriculation, towards the degree of Bachelor of Science. Women are admitted on the same terms as men.

Details regarding the "Courses in Business Economics" are given in a special announcement. Particulars as to the requirements for the degree of Bachelor of Science are given in this Register.

II. The students enrolled under the Faculty of Medicine are:

(1) Candidates for the degree of Doctor of Medicine. These must be college graduates, or must give evidence by examination that they possess the attainments indicated by a baccalaureate degree in arts or science. Women are admitted on the same terms as men.

(2) Doctors of Medicine desiring to pursue certain special courses, which are annually announced.

The terms of admission to the medical department, the general plan of instruction, and other detailed information are given in the "Catalogue and Announcement" of the department.

III. Students are enrolled under the Faculty of Hygiene and Public Health in the following classes:

(1) Candidates for the degree of Doctor of Public Health.

(2) Candidates for the degree of Doctor of Science in Hygiene.

(3) Candidates for the degree of Bachelor of Science in Hygiene.

(4) Special students, not candidates for a degree.

Information in detail regarding the School of Hygiene is given in a separate announcement.

IV. The students enrolled under the Faculty of Engineering are:

(1) Those who have obtained degrees in Engineering from schools or colleges in good standing, and who desire to follow advanced courses or pursue investigations in engineering subjects.

(2) Undergraduate students who are looking forward to the degree of Bachelor of Engineering.

For detailed information see subsequent pages of this Register; also the special announcement of the Department of Engineering.

I. FACULTY OF PHILOSOPHY

Advanced students are received whether they are candidates for a degree or not, and they are permitted to attend such lectures and exercises as they may select. On entering the University they are expected to present their diplomas and certificates from the institutions with which they have been connected, and also letters of introduction. They are not examined by the University for admission, but each instructor satisfies himself of the attainments of those who wish to follow his guidance before admitting them to his classes.

The professors are ready to give personal counsel to those who seek it; books and instruments adapted to investigation and advanced work have been liberally provided; seminaries limited to a few advanced students have been organized in various subjects; societies devoted to philology, to mathematical, physical, and natural science, and to history and political science, afford opportunities for the presentation of memoirs and original communications, and there are also conferences for the reading and discussion of philological, philosophical, biological, physical, geological, and chemical papers; during the year courses of lectures are given by resident and non-resident professors on topics to which they have given special attention; the libraries of the Peabody Institute and Maryland Historical Society, founded for the benefit of scholars, are easily accessible; the issuing, under the auspices of the Trustees, of publications devoted to mathematics, philology, biology, the modern languages, history, political science, and economics, brings the University into advantageous connection with other foundations; and the University reading room, which is constantly open, is liberally supplied with new and standard books and with the literary and scientific journals of this and other lands.

Instruction is carried on in the different departments by methods which vary with the nature of the subject and the character and proficiency of the scholars; but in all alike the end is the same,—that, while the students are becoming familiar with the work prosecuted and the results attained elsewhere, and are adding to their general intellectual culture, they may be encouraged to become independent and original investigators in their chosen fields of labor. Within reasonable limits the University will provide such books, apparatus, and material as may be requisite for this purpose.

The principal subjects in which advanced instruction is now provided are these:

Botany
Chemistry
Classical Archæology and Art
Education
English and Anglo-Saxon
Geology and Mineralogy
German
Germanic Philology
Greek
History
Latin
Mathematics
Pathology and Bacteriology
Philosophy
Physics and Astronomy
Physiology (Animal)
Plant Physiology
Political Economy
Political Science
Psychology
Romance Languages (French, Spanish, Italian)
Sanskrit and Comparative Philology.
Semitic Languages (Oriental Seminary)
Zoology

GRADUATE AND COLLEGIATE COURSES

CHEMISTRY

The Chemical Laboratory is open for work and the teaching staff is in attendance from 9 a. m. to 5 p. m. on all week days, except Saturday, when the working hours extend from 9 a. m. to 1 p. m.

The department is amply provided with an equipment of apparatus and other facilities for a great variety of research and with a library which contains complete sets of all the more important chemical periodicals.

While instruction by means of lectures and examinations and by required historical investigation on the part of the students is not neglected, it is the conviction of the teaching staff that the *education* of a chemist is effected principally in the laboratory, and mainly through the daily contact of instructor and student at the working place of the latter.

It is desirable, though not required, that a student should have, at the beginning of his graduate work in chemistry, a good knowledge of physics, a knowledge of mathematics through calculus, and the ability to read scientific German and French. If he is deficient with respect to any of these subjects, he is advised to make up the deficiency as soon as possible after beginning his graduate work.

COURSE OF INSTRUCTION

A. *Lecture and Class-Room Instruction*

I. Introduction to General Chemistry.

Lectures and recitations three times weekly through the year. Professor GILPIN.

II. Systematic Inorganic Chemistry.

Two lectures and one conference weekly through the year. Dr. MILLER.

III. Systematic Organic Chemistry.
Two lectures and one conference weekly through the year. Professor GILPIN.

IV. General Chemistry.
Twice weekly through the year. Professor FRAZER.

V. Physical Chemistry.
Twice weekly through two years. Associate Professor PATRICK.

VI. Advanced Inorganic Chemistry.
Twice weekly through the year. Associate Professor LOVELACE.

VII. Advanced Organic Chemistry.
Twice weekly through two years. Professor REID.

VIII. Principles of Quantitative Analysis.
Weekly through two years. Professor FRAZER.

IX. Mathematics for Chemical Students.
Professor MORLEY.

X. Journal Meetings.
Weekly through the year.

XI. Lectures upon assigned topics by advanced students.

B. *Laboratory*

I. Elementary Experimental Work and Simple Analysis.
Six hours weekly through the year. Professor GILPIN, Dr. MILLER, and Assistants.

II. Chemical Reactions, Qualitative and Quantitative Analysis.
Six hours weekly through the year. Dr. MILLER and Assistants.

III. Organic Preparations and Analytical Methods.
Six hours weekly through the year. Professor GILPIN and Assistants.

IV. Difficult Inorganic Preparations and Advanced Qualitative and Quantitative Analysis.
Six hours weekly through the year.

(Advanced laboratory course for undergraduate students designed to meet special needs.)

V. Organic Preparations (Advanced Course).
Daily for eight weeks. Professor REID.

VI. Physical Chemical Methods.
Daily for eight weeks. Associate Professor PATRICK.

VII. Quantitative Chemistry.
Daily through the year. Professor FRAZER.

VIII. Inorganic Reactions and Electro-chemical Methods.
Daily for eight weeks. Associate Professor LOVELACE.

Undergraduates who are candidates for the degree of Bachelor of Arts take during their

Second Year, Courses A, I, and B, I.
Third year, Courses A, II, and B, II.
Fourth year, Courses A, III, and B, III, and possibly B, IV.

Beginning graduates are assigned to any of the enumerated courses for which they have been prepared by previous experience.

Examinations

Written examinations are given upon all lecture and laboratory courses, and students who are candidates for the degree of Doctor of Philosophy are required to give evidence of adequate proficiency in each of the courses taken by them before beginning research. Those who show themselves unable to pass the required examinations in a creditable manner are discouraged from attempting to secure the doctor's degree.

Dissertations

Having completed the routine work of the various laboratories and having passed with credit the required examinations, the student is assigned by the staff to one of its members, who proposes to him a problem for investigation which may be made the basis of the doctor's dissertation, and who henceforth directs his work in the laboratory. It sometimes happens that the student has good reason for preferring some particular line of research and this course is allowed if the circumstances permit.

Special Students

For those who do not look forward to the degree of Doctor of Philosophy the rules are less rigid. A person admitted to the University as a special student is permitted to take any of the lecture or laboratory courses for which he is qualified by previous training.

Classical Archaeology and Art

The work in Classical Archæology and Art is carried on by means of a Seminary, various courses of lectures, conferences with individual students, and practical exercises in the museums. The archæological material in the possession of the University includes good collections of Greek and Roman inscriptions, marbles, bronzes, vases and other terra cottas, coins, gems, etc., which not only serve the purpose of illustration but also form the basis of original investigation. These are supplemented by squeezes, photographs, and lantern slides, as well as by the casts belonging to the University and to the Peabody Institute. The Walters Art Gallery, which is not far from the University, also contains a very valuable collection of Greek and Roman antiquities.

SEMINARY AND ADVANCED COURSES

The subjects treated in the Seminary, or presented in lectures, vary from year to year, so that in three or four years of continuous residence students are brought into contact with the most important of the ancient authors and with the principal fields of archæological research. These subjects include Greek and Roman architecture, epigraphy, palæography, private life, topography, sculpture, painting, ceramics, coinage, gems, bronzes, and the Etruscan and Mycenaean civilizations. The following courses are offered for the year 1919-20:

1. Archæological Seminary.

Selected topics and problems in Roman Archæology, especially Numismatics. The Seminary will be adapted to the needs of the members in the way of preparation of reports and papers. Subjects for research will be assigned to the students along the lines in which they are interested.

Friday, 4 p. m. Professor ROBINSON.

2. Life and Art in Minoan Times, and their relation to Homer.

Wednesday, 4 p. m., first half-year. Professor ROBINSON.

3. Outlines of Greek and Roman Architecture.

Wednesday, 4 p. m., second half-year. Professor ROBINSON.

4. An Introduction to Latin Epigraphy with practical exercises in the interpretation of inscriptions from original stones and published texts.

One hour weekly through the year. Associate Professor MAGOFFIN.

Notice of other graduate courses is reserved.

UNDERGRADUATE COURSES (open to graduates)

1. The Private Life of the Romans.

One hour weekly through the year. Associate Professor MAGOFFIN.

2. History of Greek Literature.

One hour weekly through the year. Professor ROBINSON.

3. Greek Life as illustrated by Greek Literature and the Monuments.

One hour weekly through the year. Professor ROBINSON.

Courses 1 and 2 are parts of Latin 4 and Greek 4, respectively, but may be pursued by any student of the University. Taken together, they count as two-thirds of a course, and with the course in Greek Life or Roman Literature (Latin 3) as a full course. Students of Latin and Greek will benefit most by these courses, but no knowledge of Greek or Latin is required.

[See College Courses for Teachers for other Courses in the History of Art.]

Drawing

1. Freehand Drawing.

The instruction aims to impart such knowledge of the principles of drawing as shall give students the ability to represent natural objects correctly.

Students in the medical, biological, or engineering courses will find this course of value in the practical illustration of lectures and laboratory work. It is required of all first-year students in Engineering.

Six hours weekly, first half-year. Mr. Whiteman.

2. Mechanical Drawing: Elements.

Lettering, Orthographic and Isometric Projection.

This course is required of all students in Engineering.

Six hours weekly, second half-year. Mr. Whiteman.

Education

Graduate Courses

The graduate work in Education provides opportunity for study and investigation in the fields of educational history, principles, psychology, administration, experiment, and in higher, secondary, and elementary education. It is designed to prepare advanced students to give instruction in the subject, to make application of the results of investigations to the problems in practical situations, and also to introduce students in special subjects to the principles which may be applied in the educational organization of their specialties.

During the year 1919-1920 the courses will be as follows:

1. Educational Seminary.

The work of the year includes studies in the field of educational organization and administration. Topics relating to the legal, the instructional, or the business aspects of education, as defining the special interests of the members, are considered. Attention is given to the results of representative studies in this field, and to the material available in the reports of recent and current surveys of educational systems.

Professor Buchner. *Saturday*, 9.15–11 *a. m.*

2. Experimental Education.

This course includes a study of the aims and general methods of educational research and measurement. Emphasis is placed on methods of approaching educational problems and the application and evaluation of mental tests and measuring scales, including statistical methods of deriving results. Research is undertaken in problems selected according to the chief interests of individual students.

Professor BUCHNER. *Saturday*, 11.15 *a. m.*–1 *p. m.*

3. Modern Educational Theory.

A study of the current social theories of the school and their application is undertaken, including such topics as the democratic conception of education, the curriculum, the development of classroom conduct and the modification of schoolroom procedure. Reports on required readings and observation of typical schools in the vicinity will be required.

Miss BAMBERGER. *Monday*, 4-6 *p. m.*

4. Higher Education.

The problems of university and collegiate administration, organization, and instruction are considered on the basis of the methods and results of the investigation of special phases of higher education in the United States.

Professor BUCHNER. *One hour a week.*

5. Secondary Education.

This course will deal with the principal topics of high school organization and administration, including important current problems, such as supervised study, the reorganization of secondary education, and the junior high school.

Dr. WEGLEIN. *Two hours a week.*

6. Supervision of Elementary Schools.

During the first half-year attention is given to such topics as general principles of instruction, the proper method of study, standards for judging instruction, and the improvement of teachers in service, as based on the observation and discussion of recitations.

The application of standard tests and scales for the measurement of schoolroom subjects is taken up during the second half-year, emphasis being placed on the technique of conducting tests, determining class standings, and evaluating methods of teaching and of material. Each student will be required to give at least one test to a class of children, to organize the data, and to interpret the results.

Miss BAMBERGER. *Wednesday*, 4-10–6 *p. m.*

UNDERGRADUATE COURSES

Introductory courses in Education are given in the College Courses for Teachers (see special circular), and form part of the program from which election may be made by candidates for the degree of Bachelor of Science. By action of the Board of Collegiate Studies, candidates for the degree of Bachelor of Arts expecting to teach may elect, subject to approval, such courses as will enable them to meet the requirements of Boards of Education and Boards of Examiners.

College graduates may qualify for the Maryland State High School Teachers' Certificate in the regular academic subjects, provided "that during their college course at least two high school branches were continuously pursued for two years," and "provided that they had not less than two hundred recitation hours of instruction in education, including the aims of secondary education, and in the methods, observation, and practice teaching of high school studies."

The State Board of Education has provided that the minimum amount of college work in Education, which will meet the requirements of the State Law, shall include history of education, educational psychology or principles of education, principles of teaching and special methods in secondary school subjects, and secondary school organization and classroom management.

1. History of Education.
   Professor BUCHNER. *Monday and Wednesday,* 5.10 *p. m.*

2. Principles of Education.
   Professor BUCHNER. *Tuesday,* 4.20-6 *p. m.*

3. Educational Psychology.
   Professor BUCHNER. *Monday and Wednesday,* 4.10 *p. m.*

4. Principles of Teaching and Special Methods in Secondary School Subjects.
   Professor BUCHNER, Miss BAMBERGER and Dr. WEGLEIN. *Two hours a week.*

5. Secondary School Organization and Class-Room Management.
Dr. WEGLEIN. *Tuesday and Friday*, 4.10 *p. m.*

6. Special Problems in Secondary Education.
Dr. WEGLEIN. *Tuesday and Friday*, 5.10 *p. m.*

7. Elementary Education.
Miss BAMBERGER. *Saturday*, 9.15-11 *a. m.*

8. Elementary School Organization and Class-Room Management.
Miss BAMBERGER. *Saturday*, 11.15 *a. m.*-1 *p. m.*

ENGLISH

GRADUATE COURSES

In the graduate courses the subject of English is studied with reference to the historical and technical aspects of linguistic and literary science. The usual sequence of courses enables a student, in three or four years, to study with precision the important departments of grammar and of literature, and to become trained in the processes of original investigation. Instruction is imparted by lectures, by freer conferences, by the methods of the Seminary, and by class-room recitation. A Journal Club is conducted for the purpose of supplementing the regular courses with reports of the current work of scholars.

1. *English Seminary*

Graduate students are admitted to the Seminary as soon as they have satisfied initial requirements for independent research. The following subjects will be studied in the Seminary in the academic year 1919-1920: (1) Several of the principal Poetic Works of the Anglo-Saxon Period (first third of the year); (2) a Selection of Prose and Poetic Works of the Middle English Period (second third of the year); (3) Problems in the Literature of the Nineteenth Century. **Professor BRIGHT.** ***Tuesday and Thursday, 3-5 p. m.***

2. Lectures and Conferences on the Grammar of the Middle English period. Professor BRIGHT. *Monday and Wednesday,* 12 *m.*

3. Lectures on the art of English Versification. Professor BRIGHT. *Tuesday,* 12 *m.*

4. An introductory course in Anglo-Saxon, with lectures on the Germanic and Indogermanic relationship of the language. Professor BRIGHT. *Friday,* 3-5 *p. m.*

5. The Journal Club of the English Seminary. Professor BRIGHT. *Alternate weeks, two hours.*

UNDERGRADUATE COURSES

English Composition

1. Rhetoric and English Composition.

Theory, based upon text-books, lectures, and discussions; critical study of English prose; frequent practice in writing. This course is prescribed during the first year.

Three hours weekly through the year. Associate Professor FRENCH and Assistants.

2. English Composition.

An advanced course in written English in which special attention is paid to exposition and argument.

Two hours weekly during the first half-year. Associate Professor FRENCH.

Public Speaking

1. (*a*) Reading and Platform Speaking.

During the first half-year attention is paid to correct habits of breathing and to enunciation and expression.

(*b*) The Speech for Special Occasions.

The second half-year is devoted to the study and practice of speeches adapted to various special occasions. Some opportunity for drill in impromptu speaking is afforded at the close of the year.

One hour weekly through the year. Associate Professor FRENCH and Assistants.

2. The Forms of Public Address.

An advanced course in oral English. Emphasis will be laid upon public discussion and persuasion. This course is open to students who have taken Public Speaking 1.

Two hours weekly through the second half-year. Associate Professor FRENCH.

English Literature

1. English Literature, 1500-1625.

A survey of the revival of learning and of the effect of this movement upon literature in England; a more careful study of English Literature during the latter half of the reign of Queen Elizabeth and of the reign of James I,—more particularly of poetry, drama, and prose, as represented in the writings of Spenser and the Elizabethan and Jacobean lyrical poets, of Shakspere, and of Bacon.

Three hours weekly through the year. Professor GREENE.

2. English Literature, 1765-1892.

First half-year: English Literature from the publication of Percy's *Reliques* to the death of Coleridge (1765-1834); the study will include English and Scottish Popular Ballads, and the writings of Burns, Wordsworth, Coleridge, Keats, Shelley, Byron, and Scott.

Second half-year: Tennyson and Browning; novelists and essayists since 1832.

Three hours weekly through the year. Professor GREENE.

3. American Literature.

A study of the various types of verse and prose as they are represented in American literature, with incidental reference to literary history and biography. The writing of themes and essays based upon selected works, including the works of contemporary authors, will be an important part of the course.

Three hours weekly through the year. Associate Professor FRENCH.

Courses 1, 2, and 3 are planned for students who are taking a first course (in college) in English Literature.

The following (4, 5, 6) are advanced courses for students who have already taken an introductory course.

4. English Literature, 700-1500.

A survey of the literature before the Norman Conquest; an introduction to Middle English; careful reading of a few of the poems of Chaucer and rapid reading of other poems; reading of romances and lyrical poems.

Three hours weekly through the year. Professor GREENE.

[This course will *not* be given in 1919-20.]

5. Shakespeare: Elizabethan Drama.

This course will include (*a*) the reading of a considerable number of the plays of Shakspere, and a careful study of two or three of

the plays: (*b*) a survey of the development of the English drama from its origin to 1642; and (*c*) the reading of several of the plays of Marlowe and Ben Jonson,—and of other dramatists if time serves.

Three hours weekly through the year. Professor GREENE.

[Open to students who have made a creditable record in some earlier course,—preferably in Course 1.]

6. English Literature, 1625-1774.

First half-year: English literature from 1625 to 1674; special attention will be given to the English Bible and to the works of Milton.

Second half-year: From the Restoration to the death of Goldsmith (1660-1774); special attention will be given to the writings of Dryden, Addison, Steele, Swift, Pope, Gray, Goldsmith, and Johnson.

Three hours weekly through the year. Professor GREENE.

GEOLOGY

The courses in Geology are arranged to cover the entire field of Geology from the elements to advanced discussions in special topics in Historical Geology, Paleontology, Petrography, Dynamical Geology, and Economic Geology. All of the courses are open to qualified students, but it is not required that all courses should be taken for advanced degrees. Sufficient latitude in requirements and selection of subjects is allowed to permit specialization based upon a thorough grounding in the fundamentals of the science as a whole.

The Undergraduate courses are open to advanced students whose previous work has not included the requisite amount of preliminary training for the advanced courses. They are so arranged that after the first year some latitude in selection is allowed to meet the requirements of students in chemistry, engineering, and geology.

The Graduate courses are so arranged as to permit a distinction between descriptive courses essential to all students of geology and more advanced courses leading to specialization in different aspects of the general subject. The order in which the courses are *generally* taken is indicated by the sequence

below, but every effort is made to adjust the graduate courses as to time and subject matter to accomplish the maximum development of the individual student.

The Laboratory and Library are open every day from 8.30 a. m. until 5 p. m. and all the members of the teaching staff are generally present for conference or consultation.

Undergraduate Courses

1. Elements of Geology.

Four lectures or recitations and three hours of laboratory work each week through the year. Professor SWARTZ.

This course is open to all students. It is designed to give a general view of the subject of geology, and may profitably be pursued by those who wish to have some knowledge of the chief events of the earth's history. It includes an account of the origin of the features of the surface of the earth, a discussion of the phenomena of earthquakes, volcanoes, mountain-making, and an outline of the past history of the earth.

Materials illustrative of the lectures are studied in the laboratory. Emphasis is placed upon the observation of geological phenomena in nature, the State of Maryland presenting features of unusual interest for such study. Frequent excursions are made to neighboring points where the principles of the science are studied in the field, while a longer trip is made in the Spring to places of special interest for geological study. This course is illustrated by maps, lantern views, and the rich collections of the University.

2. Mineralogy and Elementary Petrography.

Part 1. ***Two lectures and four hours of laboratory work each week through the year.*** Professor SWARTZ.

This course includes the study of crystallography, a discussion of the more important minerals, and a brief consideration of the origin and characteristics of the chief types of rocks. Numerous excursions are made to points of interest in the vicinity of Baltimore, which is unusually rich in the variety of its rocks and minerals.

Emphasis is laid upon laboratory work, which includes the study of crystal models, the identification of minerals by means of the blowpipe and by inspection, and the examination of rocks in the laboratory and in the field. A knowledge of chemistry is required for the pursuit of this course.

Part 2. ***One lecture and two hours of laboratory work each week through the year.*** Professor SWARTZ.

This is open to students who are pursuing Part 1 and who wish a more thorough knowledge of crystallography and mineralogy than is afforded by that course. It offers a more advanced discussion of those subjects, while a larger number of the more important minerals are studied in the laboratory.

3. Applied Geology.

Three lectures each week through the year. Professor MATHEWS.

This course is designed for students in geology and engineering who have had one or both of the preceding courses. Its aim is to show the relation of geological phenomena and geological conditions to human activities. It includes discussions of coal, oil, clay, building stones, water supply, etc., and imparts information on these subjects such as an educated man should possess. It does not include a treatment of the technical questions of metallurgy or mining.

4. Historical Geology.

Three lectures each week through the year. Professor BERRY.

This course aims to present the main events in the past history of the earth as disclosed by the stratified rocks and the relics of animal and plant life which they contain. Open to students who have taken Geology I.

5. Commercial Geography.

Three lectures each week through the year. Professor MATHEWS.

This course is offered to students of the University interested in political economy or other academic courses. It is designed to present a general picture of the physical features of the earth in their relations to commerce and industry; the characteristics of districts and commodities and the commercial inter-relationships of the various countries of the earth. While primarily for Juniors and Seniors, this course is open to all students.

[The course in Commercial Geography will alternate with that in Applied Geology and *will not be given in the year* 1919-20.]

Graduate Courses

Systematic Paleontology.

Three lectures and two afternoons of laboratory work each week through the year. Professor BERRY.

A systematic course in invertebrate paleontology and paleobotany covering the morphology, ontogeny, distribution, and phylogeny of the various groups represented in the geologic record and their existing representatives.

Systematic Petrography.

Three lectures and two afternoons of laboratory work each week through the year. Professor MATHEWS.

This course consists of two parts. The first aims to present the principles of optical mineralogy and a description of the optical properties of the more important minerals occurring in rocks. The second deals with the classification and description of the more important rocks of igneous, sedimentary, and metamorphic origin.

Geography.

Two hours each week through the year. Professor REID.

This course consists of two parts:

(a) General Geography, first half-year. This course is intended as introductory to the more detailed study of the problems of physical geology. It takes up the general characteristics of the earth as a whole, shape of its surface, distribution of land and water, and the general characteristics of the land and oceanic areas, etc.

(b) Exploratory and Geological Surveying, second half-year. This course covers the general methods of surveying, with special reference to the methods that would be used in explorations and the methods of working out the general structural geology of a region.

Economic Geology.

Three lectures and one afternoon of laboratory work each week through the year. Associate Professor SINGEWALD.

This course consists of four parts:

(a) Principles of Ore Deposits, including description of major types of ore deposits with special emphasis on the mode of occurrence, form and content, and of subsequent changes in form and content due to physical and chemical processes. Two hours through first half-year.

(b) Ore Deposits of Europe. One hour through first half-year.

(c) Ore Deposits of the United States. Three hours through second half-year. The latter include a discussion of the mineralization and its distribution with descriptions of the principal ore-deposits.

(d) Field trip in April to important mineral deposits of Eastern Pennsylvania and New Jersey. [$25.00.]

Advanced Petrography.

Two lectures and two afternoons of laboratory work each week through the year. Professor MATHEWS.

This course aims to present by lectures and conferences topics of special importance in mineralogy and petrography, such as the properties of silicate magmas, eutectics, the physical chemistry of selected mineral systems, the role of colloids in geological phenomena, the principles underlying rock classification, the history of igneous activity, etc.

Dynamic and Structural Geology.

Two lectures each week through the year. Professor REID.

In this course special problems in physical geology and general physiography are considered in conferences and lectures. The topics considered include in physical geology such matters as the methods of determining the size and shape of the earth; the distribution of density of the earth; isostasy; tides; rigidity of the earth; temperature of the earth; estimates of its age; earth movements and the origin of mountain ranges; dynamics of faulting and folding; earthquakes; volcanoes; and photographic surveying.

In general physiography such subjects as the character and origin

of various land forms, special problems of erosion and deposition, the physical character of lakes, rivers, and mountains, glaciers and glacial geology are taken up.

Advanced Paleontology and Historical Geology.

Two afternoons each week through the year. Professor BERRY.

One afternoon each week is devoted to conferences and special problems covering the principles and application of geological chronology and one afternoon each week is devoted to special problems in the interpretation of fossil faunas and floras. The seminar method is largely used and original work on the faunal and floral facies, succession, and their interpretation in terms of environment and for purposes of correlation is emphasized.

Advanced Economic Geology.

Three lectures and one afternoon of laboratory work through the year. Associate Professor SINGEWALD.

This course consists of three parts:

(a) Consideration in seminar of such topics as magmatic segregation, contact metamorphism, source and nature of mineralizing solutions, ore shoots and their classification, secondary enrichment, bases of classification of ore deposits. Two hours.

(b) Mineral deposits of South America. Discussion of geologic relations, mineralogic characteristics and genetic features of mineralization in the South American continent. Description of principal mineral deposits in each of the countries. One hour.

(c) Microscopic study of ores in the laboratory.

Meteorology.

One lecture each week for one-half year.

This course embraces a discussion of the general principles of meteorology, together with an outline of the methods employed in forecasting weather conditions.

Library

The Library of the Geological Department is a large collection of carefully selected works which contains practically all monographs and original publications referred to in geological literature, with sufficient text-books, compendiums, and other works of compilation to meet the needs of the less mature students. The library contains over 15,000 volumes and 16,000 pamphlets, and is being constantly enlarged by the acquisition of contemporaneous publications and old classic works. It is especially strong in the less accessible publications of the official Surveys of Europe and the more accessible

official reports of America. All of the current serials received by the department, totalling 390-400, are analyzed and their contents catalogued by author, subject, locality, and geologic horizon, if necessary, giving to the students and staff valuable bibliographies from many viewpoints.

Relations to Washington

The proximity to Washington makes available to the student the resources of additional extensive libraries and collections and affords the advantages of personal intercourse with the large group of scientific men at the Smithsonian Institution and National Museum, the U. S. Geological Survey, the Bureau of Mines, and the Geophysical Laboratory of the Carnegie Institution.

Relations to the Maryland Geological Survey

The Maryland Geological Survey has been conducted under the auspices of the Geological Department since 1896 and covers a wide variety of work. The geological work of the Survey has been devoted on the one hand to a study of the stratigraphy and paleontology of the State, and on the other to the mineral products, in both of which lines a large number of publications has resulted. The advanced students of the department are thus afforded unusual opportunities to participate in practical Survey activities. Many of them are employed during the year, especially during the summer vacation, in field work for which they receive remuneration. Field material for dissertations is frequently secured which is subsequently worked up in the laboratory. Opportunity for publication is afforded by the Survey reports.

German Language and Literature

Germanic Philology

SEMINARY

The Seminary is divided into two sections. Section A (the German Seminary) is chiefly concerned with the study of German Literature (both Modern and Middle High German), and will be conducted by Professor Wood. During the year 1919-20 this section will meet three times weekly. The subject for the first half-year will be German Literature in the Sixteenth Century. During the second half-year the poems of Walter von der Vogelweide will be studied. Section B (the Germanic Seminary) will meet twice weekly for the interpretation of Old Germanic texts and the discussion of problems in historical Germanic grammar. This section will be conducted by Professor Collitz. The following texts have been selected for the year 1919-20: Songs from the Elder Edda (first half-year), Old Saxon poetry (second half-year).

Students are requested to procure: Lachmann's *Gedichte Walthers*, 7. Ausgabe, Berlin, 1907. Willmanns, *Gedichte Walthers von der Vogelweide*, 2. Ausgabe (Germanistische Handbibliothek I.), Halle, 1873. G. Neckel, *Die Edda*, Band I, Text, Heidelberg 1914. Behaghel, *Heliand und Genesis*, 3. Aufl., Halle, 1910.

GERMANIC SOCIETY

The Germanic Society, which includes as members all the instructors and advanced students in German, meets monthly. Before it are presented successive results of studies by the members. The chief object of the society is to foster and guide the aptitude for more sustained individual investigation than the collective work of the Seminary offers scope for.

ADVANCED COURSES

German Language and Literature

1. Beginnings of German Classicism.

Two hours weekly, first half-year. Professor WOOD.

The following subjects will be considered: Wieland's Epic romances, as illustrating the development of German poetic style; Lessing's Earlier dramas, essays of Lessing and Herder in the field of literary criticism; and Klopstock's Early Odes, together with the first three cantos of his "Messias."

2. Gerhard Hauptmann and the Contemporary German Drama.

Two hours weekly, second half-year. Professor WOOD.

3. Middle High German (Introductory Course).

Two hours weekly, first half-year. Associate Professor KURRELMEYER.

Paul, *Mittelhochdeutsche Grammatik*, 10. Auflage, Halle, 1918; Hartmann von Aue, *Der Arme Heinrich*, hrsg. von H. Paul; Lexer, *Mittelhochdeutsches Taschenwörterbuch.*

4. Middle High German: Kudrun.

One hour weekly, second half-year. Associate Professor KURRELMEYER.

Kudrun, hrsg. von Ernst Martin. Textabdruck, 2. Aufl. von E. Schröder, Halle, 1911.

Germanic Philology

1. Introduction to the Study of Germanic Philology.

Two hours weekly, first half-year; one hour weekly, second half-year. Professor COLLITZ.

This course will include a brief survey of the early history of the Germanic languages, and an introduction to general phonetics.

2. The Verb in Gothic and Old High German.

Weekly, first halfyear. Professor COLLITZ.

Braune, *Gotische Grammatik*, 9. Aufl., Halle, 1912, or Braune's *Gothic Grammar*, transl. (from the fourth German edition) by G. H. Balg, 2d edition, 1895. New York, Lemcke and Buechner.

3. The Old High German Dialects.

Two hours weekly through the year. Professor COLLITZ.

Braune, *Althochdeutsche Grammatik*, 4. Aufl., Halle, 1911 (or Braune, *Abriss der althochd. Grammatik*, 5. Aufl., Halle, 1913); Braune, *Althochd. Lesebuch*, 7. Aufl., Halle, 1911.

4. Old Frisian.

Two hours weekly, second half-year. Professor COLLITZ.

Heuser, *Altfriesisches Lesebuch.* Heidelberg, 1903.

UNDERGRADUATE COURSES

German Elements.

Vos, *Essentials of German;* Gerstäcker, *Germelshausen;* Hauff, *Das kalte Herz;* Heyse, *L'Arrabbiata;* von Wildenbruch, *Das edle Blut;* Prose Composition; Grammar.

Four hours weekly through the year. Associate Professor KURRELMEYER.

This course is intended for students who have matriculated in Greek, French, or Spanish.

German 1.

Modern Prose Readings: C. F. Meyer, Keller, Fontane, Sudermann, and others. Practical Exercises. Private Reading.

Four hours weekly through the year. Associate Professor ROULSTON.

German 2.

Contemporary German: Novel and Drama.

Three hours weekly through the year. Associate Professor KURRELMEYER.

German 3.

Goethe, *Faust, Götz von Berlichingen, Iphigenie.*

Two hours weekly through the year. Professor WOOD.

History of German Literature (Lectures and Assigned Readings).

Weekly through the year. Associate Professor ROULSTON.

The work in Goethe and in the History of Literature, etc., may be taken separately.

German 4.

Classical Authors: Schiller, *Maria Stuart, Gedichte;* Goethe, *Hermann und Dorothea, Sesenheim.*

Private Reading.

Three hours weekly through the year. Associate Professor ROULSTON.

German 5.

Scientific German: Lassar-Cohn, *Die Chemie im täglichen Leben;* von Helmholtz, *Populäre Vorträge;* Walther, *Allgemeine Meereskunde.*

Two hours weekly through the year. Associate Professor KURRELMEYER.

This course is open to students who have completed German 1 or an equivalent.

German 6.

Pre-Medical German.

Two hours weekly through the year. Associate Professor ROULSTON.

This course is intended primarily for students who propose to enter the medical school. German 1 or an equivalent is a prerequisite.

German 7.

Historical Readings: Schiller, *Geschichte des dreissigjährigen Krieges, Drittes Buch;* Loening and Arndt, *Deutsche Wirtschaft;* Freytag, *Doktor Luther.*

Two hours weekly through the year. Associate Professor KURRELMEYER.

GREEK

SEMINARY

The plan of the Greek Seminary is based on the continuous study of some leading author or some special department of literature. Thus, during the last few years, the following subjects have been studied: Greek Comedy, especially Aristophanes and Menander, 1914-5; Greek Historiography, especially Thucydides, 1915-6; Greek Tragedy, especially Aeschylus, 1916-7; Plato and Early Greek Philosophy, 1917-8; Greek Oratory, 1918-9. Membership in the Seminary is limited to the Director and such students as shall satisfy the Director of their fitness for active participation in the work. All graduate students, however, may have the privilege of attend-

ing the meetings. Each regular member is required to take his turn in the work of the Seminary, and special subjects for research are assigned according to progress and bent.

During the first quarter (October to December) of the next academic year, the members of the Greek Seminary will meet three times a week under the direction of Professor MILLER to study the *Fragments of the Pre-Socratic Philosophers.* During the winter term (January to March), Professor PAUL SHOREY will conduct a *seminar* in *Plato,* three hours weekly. In the spring term (April to June), Professor MILLER will meet the members of the Greek Seminary three times weekly for the study of *Lucian and His Times.* The student should provide himself with Diels' Fragmente der Vorsokratiker, and with the texts of Plato and Lucian.

OTHER GRADUATE COURSES

1. Professor MILLER will read Plato's *Phaedo* once a week during the autumn term.

2. He will conduct weekly exercises in *Greek Composition* during the same term.

3. He will give a course in *Modern Greek* twice weekly during the Spring term.

4. Professor SHOREY will lecture on *Greek Philosophy* with especial reference to its influence on the thought of the modern world, twice weekly in the afternoon during the winter quarter. These lectures, while intended to supplement the work of the Greek Seminary, may be elected by other than Greek students, and will be open to the public.

5. Professor ROBINSON will conduct a course in *Aeschylus* once weekly during the autumn and spring terms.

UNDERGRADUATE COURSES

Greek Elements.
Benner-Smyth, *Beginner's Greek Book;* Xenophon, *Anabasis.*
Three hours weekly through the year.

This course is intended primarily for the benefit of such graduate students of language as may feel the need of a knowledge of Greek in the prosecution of their work; but undergraduate students who have not had any previous training in Greek may also be admitted.

Greek Intermediate.

Homer and Prose Selections.

Three hours weekly through the year.

This course is planned for students who have completed the preceding course, and is designed to connect with Greek 1.

Greek 1.

Xenophon, *Memorabilia* (selections).

Plato, *Apology.*

Herodotus (selections).

Three hours weekly, first year.

Prose Composition.

One hour weekly, first year.

Private Reading: Plato, *Crito;* Homer, *Odyssey* (two books).

Greek 2.

Lysias (selections); Isocrates (selections).

Euripides (one play).

Prose Composition.

Three hours weekly, second year.

Private Reading: Xenophon, *Hellenica* (book 1); Lucian (selections).

Greek 3.

Plato, *Protagoras.*

Lyric Poets.

Sophocles (one play).

Prose Composition.

Three hours weekly, third year.

Private Reading: Elegiac and Iambic Poets; Euripides (one play).

Greek 4.

Thucydides VII (selections).

Aristophanes, *Frogs.*
Two hours weekly, fourth year.

Greek Literature, with reading of selected passages.
Weekly, one year. Professor ROBINSON.

Private Reading: Demosthenes (select orations); Aeschylus (one play).

NOTE.—Greek Literature (Greek 4), Roman Literature (Latin 3), Greek Life (Archaeology 3), and Roman Life (Archaeology 1), each one hour weekly for one year, are open to all students. A combination of any three of these courses is counted as a full course.

HISTORY

Facilities for research are offered in the principal fields of history. Special attention is given to methods of investigation and each advanced student comes under the personal direction of the instructors in his chosen field. This supervision is obtained through seminary meetings and frequent private consultation.

In addition to the library of the University, students make use of the admirable collections of source material in the Peabody Library and the Maryland Historical Society, and are in constant touch with the great resources of the Library of Congress and the departments in Washington. The University library is constantly receiving accessions of historical works and documentary material.

GRADUATE COURSES

American History. The Seminary in American history is conducted by Professor Latané and meets for two consecutive hours on alternate Wednesdays. Membership is limited to graduate students who are making history their principal subject. In order that the student may concentrate his attention on a given period or topic, the work of the Seminary parallels to a large extent that of the lecture courses; that is, the topics assigned for investigation and report are closely

related to the lectures and involve a more detailed study of the source material than can be given in the lecture courses.

The work in American history is planned to cover three years of continuous study. The first half of each year is devoted to the political and constitutional history of the United States, and the following courses are offered in successive years: The British Colonial System and the Revolution; American Constitutional and Political History, 1789-1865; and American History since the Civil War. The second half of each year is devoted to American diplomatic history, and the following courses are offered in successive years: Anglo-American Diplomatic Relations; Latin-American History and Diplomacy; and American Diplomacy in the Orient. The close proximity to Washington affords exceptional facilities for studies in the field of diplomacy.

European History. The Seminary conducted by Professor Vincent is devoted to the investigation of problems in European history and institutions for the purpose of acquiring facility in various fields of research. The lecture courses direct attention to the social, economic, and constitutional development of the great nations of Western Europe. The subjects follow in consecutive order, the topics for each year forming a complete and independent group. The series requires three years for completion and offers opportunities for close study of selected portions of the mediæval and early modern history of the Continent. Theory and method of research are treated in connection with the sciences auxiliary to history.

English History. The constitutional and social history of England is treated in connection with the corresponding periods in European history. A part of the seminary work is devoted to problems in this field and direction is given to further special research.

Ancient History. The courses of Associate Professor Magoffin treat of the constitutional, social, artistic, and economic

development of the peoples of Greece and Italy. Special attention is given to the historical evidence furnished by epigraphy and archæology. The constitutional history of Greece and Rome is supplemented by lectures on the Roman Law. Certain portions of Oriental history are treated in the departments of Semitics and Sanskrit.

Special Lectures. The Albert Shaw Lectures on Diplomatic History are given annually by investigators in selected fields of American and foreign relations. The last course (1916-1917) was given by Professor Payson J. Treat, of Stanford University, whose subject was "The Early Diplomatic Relations between the United States and Japan, 1853-1865." Ten volumes of Shaw Lectures have been published by the Johns Hopkins Press.

The James Schouler Lectures on History and Political Science are given annually by men of prominence, upon topics indicated in the title of the lectureship. These lectures are open to the public as well as to the students and members of the University. The lecturers on this foundation have been Dr. Abbott Lawrence Lowell, president of Harvard University; George Walter Prothero, Litt. D., formerly professor of history in the University of Edinburgh; Professor John Bassett Moore, of Columbia University; Dr. James Schouler; Professor Joseph Redlich, of the University of Vienna; Hon. Charles Francis Adams; Professor William A. Dunning, of Columbia University; and Dr. David Jayne Hill.

Other lectures of interest to the students of this department, either open to the public or designed for class instruction, are given from time to time by distinguished scholars outside the University. These lectures are, in part, provided for from the income of the funds bequeathed by the late Professor Herbert B. Adams and Mr. A. J. Robinson.

The courses for the year 1919-20 will be as follows:

Professor LATANÉ.

1. Seminary of American History.
Two hours, alternate weeks.

2. The British Colonial System and the American Revolution.

Two hours weekly, first half-year.

3. Anglo-American Relations.

Two hours weekly, second half-year.

Professor VINCENT.

1. Seminary of European History.

The work will include a systematic study of the various classes of material and the auxiliary sciences employed in historical research. The topics for investigation will be taken from earlier European history.

Two hours, alternate weeks.

2. Origins of European States.

A study of the constitutional foundations of Western Europe.

Two hours weekly, first half-year.

3. The Close of the Middle Ages.

The decline of feudalism and the age of discovery.

Two hours weekly, first half-year.

Associate Professor MAGOFFIN.

1. History of Greece.

One hour weekly through the year.

2. History of Rome.

One hour weekly through the year.

UNDERGRADUATE COURSES

1. History of Greece and Rome.

The political, constitutional, social, and industrial history of Greece and Rome, approached through the translated texts of Herodotus, Thucydides, Plutarch, Suetonius, Tacitus, Cassius Dio, and others, with the aid of modern authorities.

Three hours weekly through the year. Associate Professor MAGOFFIN.

2. European History. [To be given in 1920-21.]

A rapid view of the history of the Middle Ages from the decline of the Roman Empire to the Reformation will prepare for the consideration of modern states and political institutions. Special emphasis will be laid upon the nineteenth century and the tendencies leading to the war of 1914.

Three hours weekly through the year. Professor VINCENT.

3. English History.

Chiefly constitutional and political, dealing with the origin and development of parliamentary institutions, the relations of England with continental Europe, and the modern expansion of the British Empire.

Three hours weekly through the year. Professor VINCENT.

4. American History.

The discovery and settlement of America, British colonial policy, the Revolution and the adoption of the Constitution, the development of nationality, the slavery conflict, reconstruction, expansion, and international relations.

Three hours weekly through the year. Professor LATANÉ.

LATIN

The Latin Seminary meets twice a week through the year. It consists of the director, fellows, scholars, and such advanced students as have given satisfactory proof of their ability and training. Any graduate student is at liberty to attend the exercises, but only regular members are permitted to take part in the work. Each year some author or group of authors in a given department of literature is made the centre of study. The subjects treated during the last six years are as follows:

1913–14. The Roman Historians, especially Livy and Tacitus.
1914–15. Pastoral Poetry.
1915–16. The Roman Epic, especially Vergil.
1916–17. The Roman Drama, especially Plautus and Terence.
1917–18. The Roman Satire, especially Horace and Juvenal.
1918–19. The Græco-Roman Elegy.

In addition to the regular work of the Seminary, courses of lectures are given every year by the Director, and occasionally by other qualified persons.

A separate announcement will be made hereafter regarding the advanced and graduate courses to be given in 1919-20.

UNDERGRADUATE COURSES

Beginning in October, 1919, courses may be offered in Elementary Latin, and in any other part of the Latin work hitherto required for matriculation. Details of these courses will be published in a later *Circular*.

Additional courses will be offered, as follows:

1. Livy (selections); Vergil, *Bucolics;* Catullus; Prose Composition.

   Four hours weekly through the year.

2. Tacitus, *Annals* (selections); Pliny's *Letters* (selections); Horace, *Odes.*

   Three hours weekly through the year.

   Private Reading; Tacitus, *Germania;* Cicero, *Second Philippic.*

3. Lucretius (selections); Vergil, *Georgics;* Horace, *Ars Poetica.*

   Three hours weekly through the year.

   Private Reading; Cicero, *First Tusculan;* Horace, *Satires and Epistles* (selections).

4. Plautus (one play); Juvenal (selections); Seneca's *Letters* (selections).

   Three hours weekly through the year.

   Private Reading; Terence (one play); Martial (selections).

5. Roman Literature (with reading of selected passages).

   Weekly through the year.

6. Advanced Latin Composition.

   Weekly through the year.

NOTE.—Roman Literature (Latin 5), Greek Literature (Greek 4), and Roman Archæology and Art (Archæology 1), each one hour weekly, are open to all students, and taken together are counted as a full course.

MATHEMATICS

The advanced courses are so arranged that a qualified student gets in three years the more important points of view of the whole subject. The courses are elastic in character, subjects being introduced as they are needed. In general, the plan pursued is to further independent inquiry on the part of the student. Once embarked on investigation, he uses all the apparatus of lectures and library with intelligent purpose. The seminary, which meets weekly, is primarily intended for the presentation of the results of the student's own thinking. Literature either intrinsically important or opportune is presented and discussed in the reading class, which also meets weekly. The following courses are offered:

ADVANCED COURSES

1. Mathematical Seminary.

One hour weekly. Professor MORLEY.

2. Reading Class.

One hour weekly. Professor MORLEY.

3. Higher Geometry.

Three hours weekly, first half-year. Professor MORLEY.

This is a general course in Geometry, covering in three years such matters as Projective Geometry, the Invariants of Algebraic Forms, Line Geometry, Conformal Geometry on an Algebraic Curve and Surfaces.

4. Theory of Functions.

Three hours weekly, second half-year. Professor MORLEY.

Algebraic Functions and their Integrals; Elliptic, Elliptic Modular, and General Automorphic Functions; Theory of the Potential.

*5. Dynamics.

Two hours weekly, second half-year (every other year). Professor MORLEY.

Special stress is laid on Rigid Dynamics.

* Courses thus marked will *not* be given in 1919-20.

*6. Vector Analysis.

Two hours weekly, first half-year (every other year). Professor MORLEY.

7. Elementary Theory of Functions.

Two hours weekly. Associate Professor COHEN.

An introduction to the theories of functions of a real and a complex variable.

8. Differential Equations.

Two hours weekly. Associate Professor COHEN.

Including, in three years, Ordinary Differential Equations, their Integral Curves and Singular Points; Partial Differential Equations; Lie's Theory.

*9. Differential Geometry.

Two hours weekly. Associate Professor COHEN.

Including a study of Curves in Space; Surfaces and Lines upon them; Spherical Representation; Applicability of Surfaces.

*10. Calculus of Variations.

Two hours weekly. Associate Professor COHEN.

*11. Theory of Numbers.

Two hours weekly. Associate Professor COHEN.

*12. Theory of Groups.

Two hours weekly.

Including Theory of Equations, Finite Geometries, Theory of Algebraic Forms.

*13. Theory of Correspondences.

Two hours weekly.

Including such matters as Cremona Transformations, General Birational Transformations.

*14. Theory of Probability.

Two hours weekly, one-half year.

Including applications to Statistics and the Theory of Errors.

15. Electricity and Magnetism.

Three hours weekly, first half-year. Dr. MURNAGHAN.

Application of spherical and cylindrical harmonics; the theory of transmission of signals with special reference to long-distance telephony and wireless telegraphy.

16. Dynamics of Rigid and Deformable Bodies.

Three hours weekly, second half-year. Dr. MURNAGHAN.

Attention will be directed to the theory of the gyroscope and the problem of the stability of the aeroplane.

* Courses thus marked will *not* be given in 1919-20.

UNDERGRADUATE COURSES

1. Trigonometry; Plane Analytic Geometry; Elements of Calculus.

Three hours weekly. Professor HULBURT, Associate Professor COHEN, and Dr. MURNAGHAN.

Conference.

Two hours weekly.

2. Differential and Integral Calculus.

Three hours weekly. Professor HULBURT and Associate Professor COHEN.

Conference.

Two hours weekly.

3. Applications of Calculus; Differential Equations; Mechanics.

Three hours weekly. Associate Professor COHEN.

4. Projective Geometry; Higher Plane Curves.

Three hours weekly. Professor HULBURT.

Conference.

Two hours weekly.

5. Elementary Theory of Probability.

Two hours weekly, first half-year.

Including the Theory of Least Squares, the derivation of empirical formulae, and the application of mathematical methods to statistics.

In connection with the three hours' class-room instruction, the instructors in several courses meet the students weekly in a two-hour session for the purpose of supplementary explanation and application of the principles taught in the class-room. This is the part designated as "Conference." It is not intended thus to increase the amount of work required of the student, but rather to aid him in the understanding and preparation of the work of the class.

Military Science and Tactics

The Reserve Officers' Training Corps Unit

In 1916 the War Department established an Infantry Unit of the Reserve Officers' Training Corps, Senior Division, at this university. During the three years in which the unit has been in existence it has steadily increased in importance and efficiency, and the military courses now given rank equally with all other courses.

During the first year of the student's service in the R. O. T. C. his time is devoted to the drill field, where he is given a thorough course in matters pertaining to the practical training of an infantry soldier. Thereafter, the course begins to train the student to be an officer; a minimum of time is devoted to drill and a maximum to the training of the student's mind.

The R. O. T. C. undergraduate student body is organized as an Infantry Battalion, which drills as such at least one day a month. The officers and non-commissioned officers of the battalion are appointed from among the students.

The physical training of students of the R. O. T. C. is handled by the Gymnasium Department, coöperating with the Department of Military Science.

The course is progressive, beginning with instruction in the duties of a soldier for the Freshman class, military topography for the Sophomore class, military field-engineering for the Junior class, and military and international law and history for the Senior class. Throughout the course the student also progresses in the handling of troops, beginning with instruction in squad leadership and advancing to platoon, company, and regiment; in the Senior year he is ready to undertake the War Game, in which his ability to handle all arms of the service on the large relief maps is demonstrated.

After the Freshman has completed his year of thorough practical instruction on the drill field, he is ready to lay aside

his rifle and learn to write orders, messages, and reports, and to make and read maps. Having mastered the intricacies of topography in his Sophomore year, the student applies this knowledge to his work during the next two years, beginning in his Junior year with the construction of terrain problems in sand. The Junion is then expected to construct certain models of the most common engineering devices which an infantry officer would be likely to be called upon to construct in mobilization camps or in the field. The Senior, studying his text on military law, applies the knowledge gained to actual practice in courts martial procedure; he assumes the duties of a company commander and learns the administration of an infantry company.

The discipline of the unit and the method of oral classroom recitation in military subjects follow the system of the United States Military Academy at West Point as closely as possible.

A student who completes the course satisfactorily receives a credit of seventeen points towards the degree of Bachelor of Arts, distributed as follows:

Freshman year	3 points
Sophomore year	4 points
Junior year	5 points
Senior year	5 points

The course may also be taken as an elective by engineering students.

The following is an outline of the course for each year:

MILITARY SCIENCE 1.

Oral recitation, one hour each week on a military text (general in character); West Point system of classroom recitation.

Lecture, one hour each alternate week, fundamentals of military science. *Written quiz* on last week's lecture, one hour each alternate week.

Practical instruction in infantry Drill; Sub-caliber rifle practice; Ceremonies; Guard Duty; Advance and Rear Guards; Outposts; Patrols; Small Problems for Infantry (on B. H. Relief Maps); Bayonet Instruction and Combat; Hand Grenade Instruction; Machine Guns; Automatic Rifles; Use of the Gas Mask. Four hours weekly.

Credit: Three points.

MILITARY SCIENCE 2.

Written recitation, one hour per week on a military text. (Advanced.)

Lecture, one hour each alternate week, fundamentals of military science, advanced. ***Written quiz*** on last week's lecture, one hour each alternate week.

Practical instruction in Military Topography; Military English; Small Problems for Infantry (on B. H. Relief Maps); Use of the Slide Rule. Infantry Drill, two hours per month. Four hours weekly.

Credit: Four points.

MILITARY SCIENCE 3.

Written recitation, one hour each week on a military text, principally Military Field Engineering.

Lecture, one hour each week: Military Field Engineering; Strategy; Military History and Policy; Minor Tactics.

Practical instruction in construction of Military Field Engineering models; Design of Military Structures; Lessons in Minor Tactics (on B. H. Relief Maps); Sand Table instruction; Isometric drawings of Military Structures. Infantry Drill, two hours per month. Four hours weekly.

Credit: Five points.

MILITARY SCIENCE 4.

Written recitation, one hour each week on a military text (principally military law).

Lecture, one hour each week: Military Law; International Law; Courts Martial procedure; Military History and Policy; Organization of the Army; Company Administration.

Practical instruction in Courts Martial procedure; The administration of an Infantry company; Company papers; Supplies and requisitions. The War Game (on B. H. Relief Maps). Infantry Drill two hours per month. Four hours weekly.

Credit: Five points.

General remarks. The student on entering the R. O. T. C. is required to continue therein for a period of two years, at which time he has the option of discontinuing his service in the unit, or of continuing for two years more.

The government furnishes the student his full uniform and all his equipment. The student is entitled to attend two or more summer training camps at government expense, including transportation to and from camp. Students taking the two years' advanced course are entitled to forty cents per day,

paid by the government. Graduates of the R. O. T. C. who are qualified are entitled to commissions in the United States Reserve Corps as Second Lieutenants of Reserves.

Thus, a student in the R. O. T. C. taking the course in Military Science not only receives collegiate credit for the course taken, but receives from the government the following assistance (based on his four years' course):

U. S. property to the value of.....	$211.33
Cash	236.00
Value of subsistence at camps.....	54.00
Transportation to and from camps (average),	120.00
Total government assistance.....	$621.33

To this the government adds the following:

The privilege of buying articles of government uniform at government prices.

The privilege of special technical training in various fields without tuition charge.

An opportunity to obtain a temporary commission as Second Lieutenant of the Regular Army for a period of six months; service with a regular regiment; and pay during such period to the amount of $100.00 per month.

Oriental Seminary

The various courses are adapted to the requirements of four classes of students, namely: (*a*) students of theology wishing to obtain a thorough acquaintance with the sacred tongue and its sister idioms as a means of elucidating Scripture and problems of the comparative history of religion; (*b*) students of linguistics intending to make comparative grammar of the Semitic languages their specialty; (*c*) students of Oriental history and archæology desirous of drawing directly from the original sources; (*d*) persons looking for instruction in the living Oriental languages (as modern

Arabic, Turkish, Persian, modern Hebrew, Amharic, Malay, Tagalog, etc.) for practical purposes.

A room has been set apart containing a well-equipped working library for all the branches of Oriental research (including the library of the late Professor A. Dillmann, of Berlin, the Leopold Strouse Semitic Library, a special collection of works on Philippine dialects, etc.), and some advanced students are usually present to help in the preparation for the recitations conducted by the Director of the Seminary, and to furnish any other aid that may be desired. The bulk of the Oriental libraries is kept in a section of the General Library, with a special entrance opposite the door to the Oriental Seminary. On the same floor are some archæological and antiquarian collections, including the Cohen Collection of Egyptian Antiquities, the Sonneborn Collection of Jewish Ceremonial Objects, collections of Hebrew and other Oriental manuscripts, Babylonian seal-cylinders and clay tablets, etc.

The following courses are offered for the academic year 1919-20:

Oriental History, Literature, and Archæology

1. History of the Ancient East (Egypt, Babylonia, Assyria, Persia, Israel, and Judah). Dr. BLAKE. *Wednesday, 5 p. m.*

2. Biblical Archæology. Dr. ROSENAU. *Thursday, 5 p. m.*

3. The Literature of the Old Testament (with special reference to date and authorship). Dr. ROSENAU. *Tuesday, 5 p. m.*

4. Interpretation of Selected Chapters of the Authorized Version. Dr. BLAKE. *Friday, 5 p. m.*

Biblical Philology

5. Elementary Hebrew. Associate Professor EMBER. *Three hours weekly.*

6. Hebrew: Second Year's Course. Associate Professor EMBER. *Two hours weekly.*

7. Hebrew: Third Year's Course. Associate Professor EMBER. *Two hours weekly.*

8. Hebrew Phonology. Dr. BLAKE. *Thursday,* 3 *p. m.*

9. Comparative Hebrew Grammar. Professor HAUPT. *Tuesday,* 3 *p. m.*

10. Prose Composition (Hebrew, Arabic, Assyrian). Professor HAUPT. *Tuesday,* 5 *p. m.*

11. Old Testament Seminary (Critical Interpretation of the Book of Habakkuk). Professor HAUPT. *Monday,* 3–5 *p. m.*

12. Cursory Reading of the Hebrew Bible. Dr. BLAKE. *Thursday,* 4 *p. m.*

13. Post-Biblical Hebrew (Selections from the Mishnah and the Talmud). Dr. ROSENAU. *Monday,* 9–11 *a. m.*

14. Modern Hebrew. Associate Professor EMBER. *Friday,* 12 *m.*

15. Hebrew Conversation. Associate Professor EMBER. *Thursday,* 12 *m.*

16. Biblical Aramaic Grammar and Interpretation of the Aramaic Portions of the Book of Daniel. Dr. BLAKE. *Friday,* 4 *p. m.*

Arabic

17. Elementary Arabic. Associate Professor EMBER. *Monday and Wednesday,* 12 *m.*

18. Arabic Geographers. Associate Professor EMBER. *Tuesday,* 11 *a. m.*

19. Arabic Prose Composition. Professor HAUPT. [See No. 10.]

Assyriology

20. Assyrian for Beginners. Dr. BLAKE. *Wednesday and Friday,* 3 *p. m.*

21. Cuneiform Historical Texts. Dr. BLAKE. *Wednesday,* 4 *p. m.*

22. Sumerian Grammar and Interpretation of Selected Bilingual Texts. Professor HAUPT. *Monday,* 5 *p. m.*

23. Assyrian Prose Composition. Professor HAUPT. [See No. 10.]

Egyptology

24. Elementary Egyptian. Associate Professor EMBER. *Tuesday,* 12 *m.*

Journal Meeting

25. Journal Meeting. Professor HAUPT. *Tuesday,* 4 *p. m.*

PHILOSOPHY

Students having philosophy for their principal subject may either carry on most of their work within the traditional group of philosophical disciplines, or form new groupings of studies traversing the usual departmental lines. It is considered important by this department that prospective teachers of philosophy should, in any case, have a broad general training either in the humanities or in the natural or social sciences, and should be able definitely and fruitfully to correlate their philosophical studies and teaching with at least one other province of inquiry. Candidates for degrees in philosophy are therefore advised to decide early in their residence in which of the following groups they will chiefly work:

I. General systematic philosophy.
II. Logic and scientific methodology.
III. Ethics.
IV. The history of philosophical systems and of philosophical ideas in literature and in the sciences.

Candidates who elect I will have most of their work for their principal subject in philosophy, while taking the usual two subordinates in other subjects. Those who specialize in II, III or IV may be required to pursue studies in the other philosophical subjects, but may also take an equal amount of suitably correlated work in other departments, which will be

credited towards the requirements in the principal subject. Those who elect II, for example, should take courses in psychology, in mathematics, and in at least one of the experimental physical sciences and in its history. Those who specialize in III should do some work in political science and economics; those who specialize in IV should carry on some studies in the history of literature and the history of scientific hypotheses.

GRADUATE COURSES

1. Individual Work.

To be separately arranged for each student. The work will consist of required reading, methodical analysis of problems, the presentation of a connected series of fortnightly or monthly papers. and frequent conferences with the instructor. Professor LOVEJOY.

2. Seminary: Analysis of Perception.

The psychology of the perceptual process, and the nature, conditions and presuppositions of perceptual knowledge, in the light of historic doctrines and recent discussions. Especial attention will be given to the implications, for the problem of perception, of the theories of behaviorism, pragmatism, and realistic epistemological monism (neo-realism).

Two hours weekly through the year. Professor LOVEJOY.

3. The Appeal to "Nature."

Historical examination of the use of the conception of "nature" and the "natural" as standards of value or of validity, in ethics, politics and aesthetics. This course will deal chiefly with the manifestations of this tendency in the seventeenth and eighteenth centuries.

One hour weekly through the year. Professor LOVEJOY.

4. Philosophy of Art.

This course will consist of two parts:

1) General aesthetics: a discussion of general principles, such as the nature of the aesthetic qualities, the character of the art object, the various types of art objects, and the analysis of aesthetic enjoyment.

2) The aesthetics of the fine arts as illustrated by their history in Renaissance Italy.

Two hours weekly through the year. Dr. SLONIMSKY.

UNDERGRADUATE COURSES

1. (*a*) Deductive and Inductive Logic.

Lectures, recitations, and written exercises.

Three hours weekly, first half-year. Dr. SLONIMSKY.

(*b*) Ethics.

The Ethics of Dewey and Tufts is used as text. Lectures, assigned reading, and discussions.

Three hours weekly, second half-year. Dr. SLONIMSKY.

2. Introduction to Philosophy. A study of the various viewpoints possible in Metaphysics and in the Theory of Knowledge.

Lectures, readings, and discussions.

Three hours weekly through the year. Dr. SLONIMSKY.

3. History of Philosophy.

Lectures, with assigned collateral reading in the sources.

Three hours weekly through the year. Dr. SLONIMSKY.

4. The Conception of Political and Social Justice. An examination into the ethical principles bearing upon the distribution of political power and of economic goods.

Two hours weekly through the year. Professor LOVEJOY.

[Open to undergraduates who have taken Economics 1, or who have taken or are taking Political Science 1. The course is also open to graduate students.]

Physical Training and Athletics

Physical Training, Athletics, and Personal Hygiene are all included under the Gymnasium Department of this University and the work is on a parity with that done in other college courses. The course in physical training is required of all undergraduate students, during the first two years of residence though no academic credit is given.

The authorities of the University, recognizing the importance of adequate supervision of the physical condition and welfare of students, have placed a Doctor of Medicine in charge as Director and the students are brought under suitable and expert advice.

It is obligatory for each entering undergraduate student to present himself to the Director of this department and undergo a careful physical and medical examination. Unless otherwise advised or incapacitated for any reason, he must take the physical training course during his first two years.

The work in physical training is conducted by a competent instructor, and a Director of Athletics has general charge of the athletic teams under the authority of the Gymnasium Department and the General Athletic Association.

The Physical Training course itself includes physical exercise, Personal Hygiene, and Athletics, to all of which are devoted three periods a week during the academic year. Individuals regularly exercising on official team squads are credited with an equivalent amount of work on account of physical training.

The Gymnasium and Cage are at present in the city with the old group of buildings and are in active use,—the Gymnasium, however, having been, during the war period, turned into a rifle range. It is a building 127 feet long and 35 feet wide immediately adjoining the Cage, an enclosed covered space for running and athletic sports 127 feet long, 35 feet wide, and 30 feet high.

Provision is made at Homewood to take care of the work of this department until the permanent gymnasium group, consisting of a gymnasium, natatorium, and cage, is established.

Hopkins Field is the athletic exhibition ground at Homewood and is used for all the scheduled games and practice. In its construction, attention was paid to the problem of drainage and this has made it an ideal playground. It is enclosed by one of the best quarter-mile cinder tracks in the country and an excellent 220-yard straightaway. Though not permanently established, adequate dressing room facilities are provided with lockers, showers and laboratories. Two stands of ferro-concrete and accommodating about 1500 spectators each have been erected.

Immediately adjoining Hopkins Field are well-equipped tennis courts. A practice ground is just south of Hopkins Field, where the different sports are engaged in, while other areas are in preparation to provide for the physical activities of the students. Additional tennis courts adjoining the engineering buildings, have recently been provided and these help to supply the recreative needs of the students.

In order to prevent ill-advised participation in outdoor sports and to guard against over-indulgence in training, athletic teams of the University are under the control of the Director; and no student is allowed to become a member of the team unless his physical condition is satisfactory and his strength up to the required standard; and no student is allowed to be a member of or a candidate for an athletic team who is seriously deficient in his studies.

Should a student elect Military Science, he is required to follow the work prescribed by the War Department of the United States Government. This does not preclude his taking an active part in athletics, but on the contrary he should supplement his military training by other work in the line of physical training or sports.

Physics

The Physical Laboratory offers facilities in the form of apparatus, libraries, and machine shops to students who wish to pursue experimental investigations in any field of Physics. If the results of these are to be offered as dissertations for the degree of Doctor of Philosophy, the work must be done under the general direction of the Director of the Laboratory, or of one of the other professors. For students carrying on experimental researches the laboratory is open daily, except Saturday, from 9 a. m. until 5 p. m., and on Saturday from 9 a. m. until 1 p. m.

Regular courses of instruction in Physics are given in the form of lectures and laboratory exercises. They may be classed as Advanced and Elementary. The former are designed for graduate students; the later, primarily, for undergraduates.

Advanced Courses

Seminary and Journal Meetings

All advanced students meet with the instructors twice each week—once in the Physical Seminary, once for the discussion of the current Physical Journals.

During the year 1919-20 the questions to be considered in the Seminary will refer to Atomic Theories.

Lectures

1. General Physics.

Four hours weekly through the year. **Professor Ames.**

This is a series of lectures in Mathematical Physics continuing for three years and including the subjects of Theoretical Mechanics, Elasticity, Hydrodynamics, Sound, Thermodynamics, Heat Conduction, Electricity and Magnetism, and Light. During the year 1919-1920 the lectures will be on Theoretical Mechanics, including Hydrodynamics.

2. Selected Problems in Advanced Physical Optics.

Three hours weekly through the year. Professor WOOD.

The lectures are based upon Wood's "Physical Optics," and, in addition, refer to current work in the laboratory.

3. The Theory of Electrons and its Applications.

Two hours weekly, first half-year. Associate Professor PFUND.

Laboratory Courses

Special exercises in Physics in preparation for independent research, under the direction of Professors AMES and WOOD and Associate Professor PFUND.

For students following these courses the laboratory is open daily, except Saturdays, from 9 a. m. to 5 p. m.

ELEMENTARY COURSES

1. Elements of Physics.

Four hours weekly through the year. Professor BLISS (first half-year); Associate Professor PFUND (second half-year).

This course in General Physics comprises Mechanics, Heat, Electricity and Magnetism, Sound, and Light. Satisfactory completion of the course in Mathematics 1, or its equivalent, is a pre-requisite to admission to it.

2. Theoretical Mechanics and Thermodynamics.

Three hours weekly through the year. Professor AMES.

The lecture course will be in the mathematical theory of the subjects named, and a satisfactory completion of the courses in Mathematics 2 and Physics 1 will be assumed.

3. (*a*) Physical Optics.

Three hours weekly, first half-year. Associate Professor PFUND.

(*b*) Electricity and Magnetism.

Three hours weekly, second half-year. Professor BLISS.

The course will be in the mathematical theory of the subjects named, accompanied by suitable laboratory experiments.

The completion of Mathematics 2 and Physics 1, or their equivalent, is assumed.

4. Laboratory Work and Practical Exercises for students in Course 1.

Six hours weekly through the year. Professor BLISS (first half-year); Associate Professor PFUND (second half-year).

5. Laboratory Work in connection with Physics 2.

Six hours weekly through the year. Associate Professor PFUND (first half-year); Professor BLISS (second half-year).

The laboratory work in connection with the course will be in precise measurements in Mechanics and in the determination of high temperatures. The work in Mechanics includes methods of exact measurement of various mechanical quantities and natural constants; that in Pyrometry is devoted chiefly to methods of measuring temperatures, including the use of thermocouples, resistance thermometers, and pyrometers, but a few other exercises are included illustrating the accompanying lecture course.

6. (*a*) Laboratory Work in Optics.

Six hours weekly, first half-year. Associate Professor PFUND.

The students are given a thorough working knowledge of experiments dealing with fundamental principles, as well as of experiments involving the use of modern types of optical instruments, such as the plane and concave grating, Michelson and Fabry and Perot interferometers, polarimeters, etc.

(*b*) Laboratory Work and Exercises in Electricity and Magnetism to accompany Physics 3 (*b*).

Six hours weekly, second half-year. Professor BLISS.

Special attention is given to modern methods and instruments for the accurate measurement of the fundamental quantities.

ANIMAL PHYSIOLOGY

Facilities are offered in the physiological laboratory for special students, graduates in medicine and others, who are interested in special lines of investigation, and also for those who wish to follow courses leading to the degree of Doctor of Philosophy in Physiology or allied subjects.

Regular courses of instruction are given as follows:

1. Journal Club. Professor HOWELL.

Weekly through the year.

2. Physiology of the Animal Body. Dr. HOOKER, Dr. SNYDER, Dr. MANN, and Miss CONNET.

Lectures, three hours weekly through the year; laboratory, twelve hours weekly, first or third trimester.

The lecture course takes up the systematic presentation and discussion of the elements of animal physiology. The course is arranged as a whole to extend from January 1 of one academic year to the Christmas holidays of the succeeding year, but the topics considered fall into three main groups, each of which occupies a single trimester and may be taken separately. The laboratory course is given two days in the week, from 10 a. m. to 5 p. m. The work is limited to the physical methods used in experimental physiology.

3. Advanced Laboratory Work. Professor HOWELL, Dr. HOOKER, and Dr. SNYDER.

This work is done individually and consists in the investigation of a specific problem.

4. Physiological Hygiene. Professor HOWELL, Dr. SPAETH, and Dr. CLARK.

This course is given in the School of Hygiene and Public Health. It comprises three conferences and fifteen hours of laboratory exercises weekly during one trimester. The course is intended to give those applications of physiology which form the basis for industrial and educational hygiene. Course 2 or a similar course is a prerequisite.

POLITICAL ECONOMY

GRADUATE COURSES

The graduate instruction in Political Economy is designed primarily to meet the needs of advanced students preparing for a professional career in economic science. The courses afford systematic instruction in general economic principles, intimate acquaintance with special fields of economic activity, and, most important of all, knowledge of and ability to employ sound methods of economic research. The work centres in the Economic Seminary, the membership of which is limited to the most advanced students, and the primary design of which is to develop scientific research in economic study and investigation. Formal graduate instruction is offered in Economic Theory and in Applied Economics by parallel courses of lectures throughout the year. The particular topics treated vary from year to year. In 1917-18 Professor Hol-

lander lectured two hours weekly on the development of economic opinion before Adam Smith and two hours weekly on the fiscal policy and experience of the United States in the War. During the year 1918-19 critical attention was given to the relation of economic theory and war-time activity.

Professor Barnett lectured the first half-year on the development of factory legislation and during the second half-year on the various forms of workingmen's insurance.

The courses offered for 1919-20 are as follows:

1. The Economic Seminary.

Two hours weekly through the year. Professors HOLLANDER and BARNETT.

The work of the year will be the study of representative forms of industrial development in the United States, and the analysis of significant activities of American labor organizations.

2. Development of Economic Theory.

Two hours weekly through the year. Professor HOLLANDER.

During the first half-year, critical attention will be given to the basis of national prosperity and the theory of economic production. During the second half-year, study will be made of the economic system of John Stuart Mill.

3. International Exchange.

Two hours weekly through the year. Professor HOLLANDER.

During the first half-year, critical study will be made of the theory of international trade. During the second half-year the institutions of the international money market will be examined.

4. Corporation Finance.

One hour weekly through the year. Professor BARNETT.

During the first half-year attention will be given to the history of the industrial corporation and to its position in modern economic organization; during the second half-year detailed study will be made of the financing of industrial corporations.

Special courses of lectures will be given by non-resident lecturers upon such practical economic problems as charities and social reforms, railway transportation, industrial organization.

A reading class is organized yearly by the more advanced students of the department for co-operative study of economic texts and for the critical discussion of current economic literature.

UNDERGRADUATE COURSES

1. (*a*) Economic History.

The economic development of England and the industrial experience of the United States are studied.

Three hours weekly, first half-year. Dr. WEYFORTH and Dr. MITCHELL.

(*b*) Elements of Economics.

Particular attention is given to the theory of distribution and its application to leading economic problems.

Three hours weekly, second half-year. Dr. WEYFORTH and Dr. MITCHELL.

2. (*a*) Statistical Methods.

After a preliminary study of the value and place of statistics as an instrument of investigation, attention is directed to the chief methods used in statistical inquiry.

Three hours weekly, first half-year. Professor BARNETT.

(*b*) Money and Banking.

The principles of monetary science are taught with reference to practical conditions in modern systems of currency, banking, and credit.

Three hours weekly, second half-year. Professor BARNETT.

3. (a) Insurance.

The principles of insurance are taught with reference to existing systems of property, personal, and social insurance.

Three hours weekly, first half-year.

(*b*) Transportation.

The history and theory of transportation are taught with particular reference to conditions in the United States.

Three hours weekly, second half year.

(Course 3 will not be given in 1919-1920.)

4. (*a*) Labor Problems.

The problems growing out of modern industrial employment will be studied.

Three hours weekly, first half-year. Dr. WEYFORTH.

(*b*) Public Finance.

The theory and practice of finance are considered, with particular reference to problems of taxation as presented in the experience of the United States.

Three hours weekly, second half-year. Professor HOLLANDER.

NOTE.—Undergraduate Courses 2, 3 and 4 are open only to such students as have completed Course 1.

Political Science

Graduate Courses

The graduate work in political science has for its aim the preparation of advanced students for professional and original work in the fields of constitutional law, international law and diplomacy, and political philosophy. It also seeks to supply the necessary training for those desiring to enter the higher branches of the public service, and to furnish a broad and philosophical equipment to those who expect later to pursue the study and practice of the law.

A fortnightly seminary is conducted, at which reports upon special subjects are read by the students and discussed.

Lectures

The lectures are so arranged as to give three or more years of continuous instruction, covering the following subjects: the theory of the state (being a general introduction to the study of constitutional and international law), foreign constitutional law, United States constitutional law, international law and diplomacy, the legal aspects of economic and industrial problems, the history of political theories and of political literature, and historical jurisprudence.

For the year 1919-1920 the following courses are offered:

1. United States Constitutional Law.

Two hours weekly through the year. President Goodnow.

In this course the "case" system of instruction will be employed.

2. Introduction to the Study of Public Law.

Two hours weekly, first half-year. Professor Willoughby.

A course in Analytical Political Philosophy, dealing with the fundamental concepts of Constitutional and International Law.

3. Development of National Sovereignty in the United States.

Two hours weekly, second half-year. Professor Willoughby.

The lectures will deal with the nature of the Union established by the Constitution and with the historical development of national sovereignty.

4. Public Financial Administration.

One hour weekly through the year. Mr. W. F. WILLOUGHBY.

This course, given by the Director of the Institute for Government Research, will deal comparatively and critically with modern systems of public financial administration, and will especially consider the problem of introducing proper budgetary practice and procedure in the Federal and State governments of the American Union.

5. The Conception of Political and Social Justice.

Two hours weekly through the year. Professor LOVEJOY.

This course deals with the ethical principles bearing upon the distribution of political power and of economic goods.

UNDERGRADUATE COURSES

1. Principles of Constitutional Government.

Three hours weekly, first half-year. Professor WILLOUGHBY. A comparative and critical discussion of modern governments.

2. Jurisprudence. [Offered for 1920-1921.]

Three hours weekly, first half-year. Professor WILLOUGHBY.

This course will deal with the nature, forms, and development of private law, and the problems of judicial organization and administration.

3. Elements of International Law.

Three hours weekly, second half-year. Professor LATANÉ.

This course will deal with the attributes of sovereign states, their rights and duties as members of the family of nations, and the adjustment of international controversies. Special consideration will be given to the reconstruction of international relations to meet the new conditions confronting the world today.

Psychology

The direction of graduate work in Psychology is determined by the purposes and qualifications of the student. Research may be undertaken by the adequately prepared student along one of a large number of lines, not only those lying within the restricted fields of human and animal psychology, but also others in which essential coöperation of specialists in other subjects may be obtained.

Among the topics in which the investigator may obtain unusual facilities through the coöperation of specialists in the overlapping fields are Pathological Psychology (Professor Meyer in Psychiatry); Physiological Psychology (Professor Abel in Pharmacology, Professor Howell in Physiology); Genetic Psychology (Professor Jennings in Biology); Psychophysics (Professor Ames in Physics); Psychological Theory (Professor Lovejoy in Philosophy); Economic Psychology (Professor Hollander in Economics and Professor Barnett in Statistics); Educational Psychology (Professor Buchner in Education); and Psychological Esthetics (Professor Robinson in Art). A certain amount of work in Psychiatry is required, in their second or third year, of students who are candidates for the doctorate.

Those expecting to specialize in the field of Pathological Psychology are urged either to secure the medical degree before taking their graduate work in psychology, or else to continue their work in medicine after having taken the Ph. D. in psychology. Those who have received their medical degree in the Johns Hopkins University and who desire to become candidates for the Ph. D. in psychology, may offer the work done in the Medical School in Anatomy and Physiology as first and second subordinates.

Courses offered by Professor Watson are conducted in the Phipps Psychiatric Clinic of the Johns Hopkins Hospital. Courses offered by Professor Dunlap are conducted in Gilman Hall at Homewood.

For the year 1919-20 the following courses are offered:

Lectures and experiments in animal psychology.

Laboratory course, two hours a week; hours to be arranged. *Through the year.* Professor WATSON.

Human behavior.

Lecture course, two hours a week; hours to be arranged. *Through the year.* Professor WATSON.

12. Training Course for Experimental Psychology.

This course is intended for students taking psychology as a subordinate subject, and for students whose principal subject is psychology but who need further preparation.

Six hours laboratory and one conference hour through the year. Professor DUNLAP.

21. Research Course.

Individual research on selected problems. This constitutes the larger part of the work of students whose principal subject is psychology. Other students with adequate preparation may be admitted, but not less than nine hours a week may be elected. Professors WATSON and DUNLAP.

26. Psychological Journal Club.

Fortnightly through the year.

27. Seminary in Psychology.

The topic for the year will be the application of psychological methods and results to practical problems. A large portion of the time will be devoted to the consideration of Mental Tests.

Weekly through the year. Professor DUNLAP.

UNDERGRADUATE COURSES

1. Introductory Psychology.

A course designed to familiarize the student with the principal phenomena and the typical problems of mental life.

Three hours a week through the year.

2. Laboratory Course.

Practice in the observation of typical phenomena, with training in the methods and technique of psychological research.

This course may be taken simultaneously with Introductory Psychology, but is better taken in the following year.

One conference hour and two laboratory periods a week through the year.

3. Social Psychology.

The first half-year is devoted to general problems of mental life in social groups. In the second half-year, the application of psychological methods and results to industrial, hygienic, and industrial problems is considered.

Introductory psychology is a prerequisite to this course.

Three hours a week through the year.

Romance Languages

The Department of Romance Languages, founded by the late Professor A. Marshall Elliott, aims to give advanced instruction in the three principal languages of this group.

In order that the demands of all students may be met, the work of the Department varies from year to year. In 1919-20 particular emphasis will be laid upon the study of French; seminaries will be conducted in both the literature and the language, and there will be supplementary lecture courses and practical exercises. In addition to the work in French, advanced courses in Spanish and Italian will be given, and provision made for any who may desire to specialize in those languages. The chief aim of the instruction is to teach students to work for themselves; for those, however, who do not feel sufficiently equipped to enter the seminaries with profit, the undergraduate courses in the College of Arts and Sciences and the College Courses for Teachers are recommended. All instructors and students form pleasant personal relations in the bi-monthly meetings of the Romance Journal Club.

The library facilities of the University, recently enlarged by the addition of the A. Marshall Elliott Library, and by substantial gifts in the domain of French literature, are supplemented by the numerous Romance works in the Peabody and Enoch Pratt Libraries, and by the readily accessible material in the Library of Congress.

ADVANCED COURSES

French Literature

Seminary: Corneille and his Immediate Predecessors.

Studies in the beginnings of French Classical Drama. Reports by instructor and students.

Two hours weekly, October to March. Professor LANCASTER.

Seminary: The Eighteenth Century Novel.

Reports by instructor and students.

Two hours weekly, March to June. Professor CHINARD.

The Seventeenth Century.

Lectures on the leading authors of this period and readings from their works. Professor LANCASTER.

Weekly through the year.

Romanticism.

Weekly through the year. Professor CHINARD.

Nineteenth Century Lyrics.

Weekly through the year. Professor CHINARD.

Nineteenth Century Drama.

Lectures and readings.

Weekly through the year. Professor LANCASTER.

Old French Literature: *Chansons de geste* and *Romans d'aventure.*

Lectures and readings.

Weekly through the year. Associate Professor BLONDHEIM.

French Language

Seminary: Old French Word Studies: The Glosses of Rashi.

Two hours fortnightly, through the year. Associate Professor BLONDHEIM.

Old French Readings.

Weekly through the year. Associate Professor BLONDHEIM.

Italian *

Petrarch.

Weekly through the year. Dr. GRUENBAUM.

Italian Classics.

Interpretation of selected texts.

Weekly through the year. Dr. GRUENBAUM.

Italian Historical Grammar.

Weekly through the year. Dr. GRUENBAUM.

Spanish *

La literatura española desde el romanticismo, comprendidos los autores hispano-americanos.

Weekly through the year. [Instructor to be announced.]

La Novela.

Sus orígenes y desenvolvimiento durante el siglo de oro.

Two hours weekly, through the year. [Instructor to be announced.]

Spanish Historical Grammar.

Two hours weekly through the year. Dr. GRUENBAUM.

Readings in Old Spanish Literature.

Weekly through the year. Dr. GRUENBAUM.

Provençal

Old Provençal: Readings and Historical Grammar.

Weekly through the year. Associate Professor BLONDHEIM.

Popular Latin

Introduction to Popular Latin.

Weekly through the year. Associate Professor BLONDHEIM.

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* Dr. Gruenbaum's courses in Italian and Spanish will be given in alternate years, the Italian courses in 1919-20.

UNDERGRADUATE COURSES

French

French Elements.

a. The Elements of Grammar.

b. Easy French Texts: Verne, *le Tour du monde en quatre-vingts jours;* Labiche, *la Grammaire;* About, *la Mère de la marquise;* Sardou, *les Pattes de mouche.*

Four hours weekly through the year.

French 1.

a. Modern French Prose Writers: Dumas, Daudet, Coppée, Maupassant, Mérimée, Labiche and Martin, Augier, Theuriet, Hugo, Balzac. Classics: Corneille, *le Cid;* Racine, *Andromaque;* Molière, *l'Avare, les Femmes savantes;* Lafontaine, *Fables.*

b. Grammar and Composition based on a French text. Exercises in pronunciation and dictation.

c. Private Reading: C. Fontaine, *En France;* Moffet, *Lectures historiques.*

d. Outlines of French Literature.

Four hours weekly through the year.

The following courses are open to students who have completed French 1, or who have offered for matriculation three units of French.

French 2.

The Nineteenth Century: Readings from Hugo, Lamartine, Gautier, Alfred de Vigny, Alfred de Musset, Balzac, Flaubert, Zola, Daudet, Maupassant, France. Bowen's *French Lyrics.* First half-year: The Romanticists; second half-year: The Realists.

Lectures on French literature and on French life.

Private reading. Practice in writing French.

Three hours weekly through the year.

French 3.

Classic Period: Corneille, Racine, Molière; Schinz and King, *Seventeenth Century French Readings.*

Lectures; private reading.

Weekly through the year.

French 4.

Les Contemporains.

Translation; Dictation; Reports.

Two hours weekly through the year.

French 5.

Advanced Grammar and Composition.

Weekly through the year.

Italian

Phelps, *Italian Grammar;* Wilkins and Altrocchi, *Italian Short Stories;* Collodi, *Le Avventure di Pinocchio.*

Three hours weekly through the year. Dr. Gruenbaum.

Spanish

Spanish Elements.

Ingraham-Edgren, *Spanish Grammar;* De Vitis, *Spanish Reader;* Alarcón, *El Capitán Veneno;* Palacio Valdés, *La Hermana San Sulpicio.*

Four hours weekly through the year.

This course is offered to students in the Department of Engineering as an alternative to French Elements.

1. De Vitis, *Spanish Grammar;* Oral and written exercises; Hills, *Spanish Tales for Beginners;* Palacio Valdés, *La Hermana San Sulpicio.*

Three hours weekly through the year.

2. Contemporary Novel and Drama; Oral practice, grammar, and composition.

Three hours weekly through the year.

3. The Classic Drama and Cervantes; Oral practice, grammar, and composition; History of Spanish Literature.

Three hours weekly through the year.

Sanskrit and Comparative Philology

Courses of instruction, directed by Professor Bloomfield, with the assistance of an Instructor or Fellow in Sanskrit, are provided in the Indo-Iranian languages (Vedic and Classical Sanskrit, Pāli and Prākrit, Avestan and Old Persian); in Comparative Grammar of the Indo-European languages; in historical Ethnology of the Indo-European peoples; and in general Linguistic Science. During recent sessions several courses in Lithuanian, one of the Balto-Slavic languages, were given, and for some years Dr. Edgerton, now Professor of Sanskrit in the University of Pennsylvania, conducted courses in Russian.

These courses aim to meet the wants of those who wish to devote themselves to the study of these branches exclusively and for their own sake, *i. e.*, those who wish to become specialists in Indic Philology, or Comparative Philology; they also meet the needs of students of languages or humanities in general, who wish to obtain a broader linguistic or historical basis for special studies in other departments of philology.

The advanced work aims to meet the wants of those who wish to make Indic Philology or Comparative Philology their main study. The work centers in the Sanskrit Seminary, and not infrequently involves the use of Hindu manuscripts. The Veda, Classical Sanskrit, and Pāli-Prākrit (the latter in relation particularly to the important religious literatures of the Buddhists and the Jains) are treated successively, so as

to furnish a rather intimate acquaintance with the main aspects of Hindu Philology.

A prolonged course in Sanskrit, involving two lectures a week during two years and attendance in the Sanskrit Seminary for a half-year (one hour a week), is planned, so as to furnish a good knowledge of Classical Sanskrit, and to include an introduction to the dialect of the Vedas. This amount of work represents material sufficient for the first subsidiary subject for the degree of Doctor of Philosophy. A course in the same study for one and a half years, involving two hours a week, is the amount required for a second subsidiary subject leading to the same degree.

A synopsis of the courses offered during past years may be presented under the following heads:

I. Courses in the general principles of comparative philology or linguistic science, and on special chapters thereof; lectures on ethnology and the history of religions.

II. Courses in the general comparative grammar of the Indo-European languages; comparative grammar of Sanskrit and Avestan; comparative study of Indo-European accentuation; comparative study of Greek, Latin, Sanskrit, and Teutonic, including vocalism, consonantism, noun-formation and inflections.

III. The Vedic, Sanskrit and Prākrit dialects; Rig-Veda; Atharva-Veda; literature of the Brāhmanas and Upanishads. The law books of Manu and Yājñavalkya; the Dramas Çakuntalā and Mṛchakaṭikā, and introduction into Prākrit; Prākrit prose tales; Pañcatantra. Hitopadeça, Kathāsaritsāgara, Pariçiṣṭaparvan, and Nala. Sanskrit grammar and prose composition.

IV. The Pāli language and Buddhist literature.

V. The Avestan language and the sacred books of the Avesta.

VI. The Lithuanian language and literature; Russian language and literature.

The following courses, in charge of Professor BLOOMFIELD, will be given during the session of 1919-20:

A. *Linguistic Science and Comparative Grammar of the Indo-European Languages.*

1. The elements of Linguistic Science, with an account of the Ethnology and Religions of the Indo-European peoples. *Weekly, thru the year.*

2. Comparative Grammar of the more familiar Indo-European languages (Greek, Latin, Teutonic, and Sanskrit): The history of the vowels and their inter-relations (ablaut). *Weekly, thru the year.*

3. The Lithuanian language and literature. *Weekly, thru the year.*

B. *Indo-Iranian Philology.*

4. Vedic Seminary: The hymns of the Atharva-Veda; Text constitution and higher criticism. *Weekly, thru the year.*

5. The elements of Vedic Philology: Vedic grammar, metres, and interpretation of selected hymns of the Rig-Veda. *Weekly, second half-year.*

6. Beginner's course in Sanskrit: Grammar and interpretation of an easy text. *Twice weekly, thru the year.*

7. Selections from the Hitopadeça and the Kathāsaritsāgara (second year's course in Classical Sanskrit). *Weekly, first half-year.*

Zoology, Botany, and Plant Physiology

The new location of the Zoological and Botanical Laboratories at Homewood, in close proximity to woods, ponds, and streams, furnishes greatly increased facilities for all kinds of biological work. These laboratories are located, for the present, in well-lighted rooms on the lower floor of Gilman Hall, and the Laboratory of Plant Physiology is nearby. Rooms and apparatus are available for research in animal and plant morphology and physiology. Unusual apparatus, such as may be necessary for special investigations, is provided as occasion demands. A number of outdoor basins, some with and some without covers, have been provided for the culture of aquatic organisms, while the open ponds of the Homewood grounds are convenient sources of supply. A collection of

living plants, in the Conservatory and Botanical Garden and in the adjacent propagating grounds, is available for many lines of study. Carefully "fixed" and preserved alcoholic material of several hundred plant species is available for histological and developmental work. The herbaria of the Botanical Laboratory include the Schimper collection of European seed-plants, the Field Club collection and the Jones collection of local plants, the Fitzgerald collection of mosses, and smaller collections of fungi, of marine algae, and of New England and Jamaican plants.

It is planned that, before receiving the degree of Doctor of Philosophy in Zoology or Botany, each student shall have the opportunity to study marine and terrestrial life in some tropical region.

The library in the Biological Laboratory is supplemented by the main library of the University and other libraries in the City, including the excellent botanical library of John Donnell Smith, whose courtesy has always made his library and herbarium available for advanced students.

The Laboratory of Plant Physiology, located alongside the Botanical Garden and adjacent to the Conservatory, is well equipped for researches on the more fundamental aspects of the subject. Several electrically heated and controlled ovens or incubators, an electrically operated clock with devices for time signals and the automatic release of recorders in any room, electrically driven klinostats and rotating tables for equalizing environmental conditions or rendering them symmetrical, a germ-free culture chamber, a physiological and a photographic dark-room, three experiment rooms under glass, together with the usual apparatus employed in physiological experimentation, are available. The outfit is flexible and special arrangements will be made to suit special researches. A small working library is located in the building.

The Adam T. Bruce Fellowship is awarded to men capable of carrying on research in biology. Two of the graduate students may be appointed each year to occupy the University

tables at the Marine Biological Laboratory at Woods Hole, Mass.

The laboratories are open from 9 a. m. to 5 p. m., and for necessary research in the evenings, but only by special arrangement.

ADVANCED COURSES

The Biological Journal Club.—The graduate students and the instructors in Zoology, Botany, and Plant Physiology form the Biological Journal Club, which meets weekly for the discussion of the recent literature in these fields.

Zoology

The advanced work in zoology is directed toward the development of investigators, and the student will receive such assistance and training toward that end as his individual needs seem to require. The set courses of the department are perhaps the less important part of that work. The courses in Zoology include: (1) Introductory and General Courses; (2) The study of the structure, morphology, classification, and embryology of animals; (3) Study of the activities and functions of the developed organisms; (4) Study of the production of the structures and functions of organisms, in the history of the individual and in the history of the race. The first two lines of work are provided in the undergraduate courses, and in many cases graduate students will find it well to follow certain of these. The third and fourth lines are provided for in the Advanced Courses. Any of the lines of work may lead directly to research, and such research will be carried on under the immediate oversight of the member of the staff in whose special field the problem falls. The later year or years of the candidate for the doctorate should be devoted to investigation, with little interruption by set courses. The student presents before the members of the department at some time during his work a

discussion of the subject with which his investigations deal, in the form of a number of lectures.

The advanced courses are elastic, subjects being dealt with that appear especially useful to the students taking part; different students may devote themselves primarily to diverse parts of the subject. In the latter part of each course, as a rule, some special subject or problem will be taken up by each student, leading directly to research.

Seminary. The instructors and graduate students meet once a week for the discussion of some of the fundamental problems of biology. Frequently some book of philosophical trend is read and discussed. In recent years the seminary has taken up Driesch's Science and Philosophy of the Organism; Lloyd Morgan's The Interpretation of Nature; v. Uexkuell's Umwelt und Innenwelt der Tiere; Bergson's Creative Evolution; McDougall's Body and Mind; and Radl's Geschichte der Biologischen Theorien. During 1919-20 it is proposed to examine certain theories of the relation of biology to human and social problems.

General Genetics. Professor JENNINGS and Associate Professor GRAVE.

Three lectures and two laboratory periods weekly from the beginning of the session to February 1.

The course deals with the problems presented by the passage of generations: life cycles, age, death, and rejuvenescence; sex, its signification and determination; heredity and variation and their relation to different methods of reproduction; environmental action and selection in their relation to evolution. The laboratory work consists mainly of examination of the cellular phenomena on which heredity and other genetic processes depend.

Under special conditions the lectures may be taken without the laboratory work.

General Physiology of Animals. Professor MAST.

Three lectures or conferences and two laboratory periods weekly through the year.

This course deals with the chemical and physical properties of protoplasm, with the relation between animals and their environment, and with some of the fundamental processes which occur in organisms (metabolism, growth, mechanics of movement).

Animal Behavior. Professor MAST.

Three lectures or conferences and two laboratory periods weekly through the year.

This course, which is really a continuation and a part of the preceding course, deals with responses to stimuli and behavior in animals, both from a purely mechanical and from a comparative physiological and psychological point of view.

These two courses will be given alternately, the course in Animal Behavior falling in the year 1919-1920. The work in both courses will be confined largely to the Invertebrates. Plants and the Vertebrates will be considered only in a general way, since they are fully dealt with in the courses offered in Botany, Plant Physiology, Psychology, and Human Physiology. The more advanced students are encouraged to take up problems for original investigation in connection with, or in place of, their regular laboratory work. Under certain conditions the lectures may be taken without laboratory work.

Investigations. Professors JENNINGS, ANDREWS, and MAST, and Associate Professor GRAVE.

Hours as required.

Botany

1. Seminary.

The Botanical Seminary meets weekly from November 1 to May 1. Professor JOHNSON.

2. Lectures and Laboratory Work.

1. Reproduction and Phylogeny in Plants. Professor JOHNSON.

a. *Three lectures weekly through the year.* (Hour to be selected in October.)

b. *Laboratory work associated with the lectures, twice weekly through the year.* (Hours to be arranged for in October.)

c. *Definite problems in field work assigned for study in the autumn and spring.*

This course embraces a general survey of reproductive structures and processes in plants, from the simplest to the most highly organized. It aims to give a broad view of the trend of evolution in the vegetable kingdom and some understanding of the natural relationships of living plants, as indicated by their vegetative, and by their reproductive, structures. Familiarity is gained with the literature of the subject by the constant use of original descriptions and illustrations, in lecture room and laboratory. The seasonal development of our native plants and the environmental conditions under which they grow are studied in the field, as a means of broadening the knowledge gained by a more intimate study of the fewer types worked out in the laboratory. In alternate years the thallophytes and the vascular plants are discussed in more detail.

II. The Physiological Anatomy of Plants. Professor JOHNSON.

a. *Two lectures or conferences weekly from January* 1 *to May* 1.

b. *Laboratory work twice weekly from January* 1 *to May* 1. (Hours to be selected in October.)

This is an advanced course for those who have a general knowledge of the organography and anatomy of plants. The work includes at the start a study of the cell,—the cytoplast, the chromatophore, the nucleus and its division, the cell wall and other cell products. Later laboratory studies are made by members of the class of the chief types of cell complexes or tissues of the plant, with the modification of these in relation to their function under special conditions in the environment. Haberlandt's Physiological Plant Anatomy and Jeffrey's Anatomy of Woody Plants are made the basis of the work, but, in addition, lectures and demonstrations are given by the instructor and members of the class and frequent use is made of original monographs on plant anatomy.

III. The History of Botany. Professor JOHNSON.

Wednesday and Thursday, 5 p. m., from November 1 *to February* 1.

The following themes will be discused in alternate years: The Theory of Sex in Plants; The Cell Theory.

These courses present, in historical sequence, the development of our knowledge of the two aspects of botany mentioned, as an aid to a just appreciation of the problems and significance of modern research in those fields.

Plant Physiology

The work in Plant Physiology is planned to inculcate productive habits of thinking and of experimental analysis in regard to the various processes of plants and the conditions controlling them. It aims to fit students for purely scientific investigations, practical research, or the teaching of the subject. It is essentially advanced work, but no rigid system of prerequisites in academic courses has been established. Opportunity is furnished for three kinds of work, all of which are essential stages in the development of ability in research, of appreciation of physiological principles and of the application of the latter. (a) A year's course of lectures, conferences and prescribed laboratory experiments, the latter terminating in some practice with simple experimental problems and naturally leading directly to research, is planned to give a somewhat broad and general view of the entire sub-

ject of plant physiology as so far developed. (b) The more advanced physiological work embraces original research, with lectures, conferences, and practice in presentation, regarding various particular phases of the subject. The use of the literature rather than of lectures, as a source of knowledge, is encouraged, and instruction is mainly personal. (c) The application of physiological knowledge and methods to the problems of ecology, agriculture, and forestry receives cursory attention throughout all of the work, and is especially emphasized in a short course of lectures and conferences, along with which field and laboratory work may be undertaken. As soon as the student is adequately prepared he is encouraged to take up original research, in either pure or applied physiology, thus fulfilling the dissertation requirement for the doctor's degree.

I. General Review of Plant Physiology. Professor LIVINGSTON and Dr. PULLING.

Lectures and laboratory work on the chief plant processes. Palladin's Plant Physiology, English edition, is read, together with selected original articles. A good knowledge of physics and chemistry is highly desirable.

a. *Three lectures or conferences weekly through the year.*

b. *Six hours of laboratory work weekly through the year.*

II. Problems in Plant Physiology. Professor LIVINGSTON and Dr. PULLING.

a. *Two lectures or conferences weekly through the year.*

b. *Six hours of laboratory work and a one-hour conference weekly through the year.*

This course is planned to give perspective and to prepare the student for profitable research in either pure or applied physiology. Each student carries on experimentation and works up the literature of restricted phases of plant activity, reporting on both literature and experiments. A considerable knowledge of the principles and methods of physics and chemistry is prerequisite.

III. Applied Plant Physiology. Professor LIVINGSTON.

a. *Thirty-six lectures or conferences at hours to be arranged.*

b. *Field and laboratory work to be arranged.*

This course is not offered every year, and is not offered at the same time as Course IV. It is planned for those wishing to enter deeply into the field of applied plant physiology, in physiological

ecology, agriculture, forestry, etc., and deals with physiological principles and methods for the study of environmental complexes that may occur in nature or in plant culture, and that may condition the activities of plants and plant associations. The effective environmental features of habitats and of climatic, soil, and other geographical areas, together with prominent physiological characteristics of representative plants, are considered, as far as possible, in a quantitative manner. A knowledge of the principles of meteorology and of climatology and some familiarity with plant taxonomy and the methods of agriculture and forestry are desirable. Open to those who have had Course I or its equivalent. Field or laboratory work may be undertaken along suitable lines, as individually arranged.

IV. The planning, interpretation, and presentation of physiological research. Professor LIVINGSTON.

a. *Thirty-six lectures or conferences at hours to be arranged.*

b. *The actual preparation of a manuscript for publication.*

This course is not offered every year, and is not offered at the same time as Course III. It deals with the logical principles upon which research in plant physiology is planned and interpreted, and with principles and methods of presentation. A reading knowledge of at least two languages besides English is highly desirable. Preparation for the conferences requires at least six hours weekly. This will consist in the actual tabulation, calculation, and interpretation of various kinds of experimental results, and in the writing of short original discussions and reviews. Details of the preparation of manuscripts and figures for the printer, of proof-reading, etc., receive attention.

UNDERGRADUATE COURSES

BIOLOGY

Biology 1*

Six hours of laboratory work and three lectures or other exercises weekly through the year. Professor ANDREWS and Assistants.

A course open to all students without previous training in science. Advantageous for all students; for those who expect to enter business or to take up the ministry, law, or social service, and for those interested in philosophy, psychology, ethics, or political economy, as well as for those planning to study medicine or to teach. Designed to train faculties of observation, comparison, and judgment by direct experiences with selected animals and plants, supplemented by lectures that point out present interpretations and biological theories. Understanding of certain organic processes is essential to every useful citizen.

Part 1. General Biology. [*Till March* 15.]

Study and comparison, with the aid of the microscope, of typical organisms from the simpler, as Amoeba and Yeast, to the more com-

* This course fulfills the minimum requirement in Biology for entrance into the Medical School and the new School of Hygiene and Public Health.

plex, as the Sweet Pea and the Frog; also experiments illustrating certain laws of heredity, conducted by each student individually.

Part 2. Embryology. [*After March* 15.]

Direct observation of phenomena of the living frog egg, the formation and transformation of the tadpole; followed by preparation and study of the hen's egg, its origin and mode of developing into the chick.

Biology 2

Comparative Anatomy of Vertebrates, Cytology, and Embryology.

Six hours of laboratory work and three lectures or other exercises weekly through the year. Associate Professor GRAVE.

This course continues the training of Biology 1 in limited fields, and is recommended to those who expect to study medicine, or to specialize in any department of Biology.

During the first part of the course dissections of Amphioxus, Skate, Haddock, and Cat are made. The lectures emphasize the principles of Animal Morphology.

During the second part of the course both laboratory and lecture periods will be occupied with study and discussion of the origin, growth, structure, and activities of soma and germ cells, and with mammalian embryology.

Biology 3

Six hours of laboratory work and three lectures or other exercises weekly through the year.

This course is intended both as a cultural course and for those who expect to specialize in some branch of Biology, in teaching or research, in medicine, in forestry, or in agriculture. It may be all Zoology, all Botany, or a combination of the two.

a. Zoölogy.

A comparative study of non-vertebrate animals, directed by Professor Andrews; it is adjustable to the need of the individual; it may be done in part at the seashore. The University has two scholarships at the Marine Biological Laboratory.

b. Botany. (*Half-year Course.*)

The structure, development and function of root, stem, leaf, flower, and fruit. (February 1 to the end of the session.) Professor JOHNSON.

c. Botany. (*Whole-year Course.*)

An introduction to botany as a science and to its relations to agriculture, commerce, and the industries. Professor JOHNSON.

Properly prepared students may arrange to devote part of the year to work in plant physiology with Professor LIVINGSTON.

This course will include laboratory and field work, with lectures and reading, upon the structures and uses of the vegetative organs; upon reproductive structures and processes in the vegetable kingdom, with the evolution and classification of plants, including field practice in the recognition of native plants; and upon the distribution of plants as determined by climate and topography. It may also consider the economic plants producing foods, drugs, lumber, clothing, paper, rubber, etc., including the historical origin of cultivated varieties and their improvement by scientific breeding and selection. It gives training in accurate observation and correct interpretation.

This course helps to an understanding and appreciation of the world about us and serves as a preparation for further special work in botany, plant physiology, forestry, or zoology.

The removal to Homewood has made possible the adequate employment of the Botanical Garden, the greenhouses, and the native forest in the work of this course.

d. Bacteriology.

Six hours of laboratory work and three lectures weekly for eight weeks of first term.

The student learns the methods of handling, cultivating, and studying non-pathogenic bacteria. The practical work gives valuable training in careful laboratory methods. The lectures treat of bacteria from a biological point of view, as very important agents in the processes of nature, especially in relation to other organisms, such as those occurring in the animal or plant body or in the soil. (This course has been given in the past whenever a sufficient number of students have registered for it.)

Biology 4

General Physiology, including Animal Behavior.

Six hours laboratory work and three lectures or other work weekly through the year. Professor MAST.

This is an advanced course extending through two years. It is designed primarily as an introduction to research and should be elected only by those desiring intensive work. It deals with fundamental physiological processes in animals.

First year. The physical and chemical properties of protoplasm; metabolism and growth.

Second year. Reactions and behavior.

Prerequisites: Biology 1 and some knowledge of physics and chemistry.

The work in either year may be taken without that in the other.

ADVANCED DEGREES

DOCTOR OF PHILOSOPHY

The degree of Doctor of Philosophy is offered to students who, after obtaining the baccalaureate degree from a college of good standing, have followed courses of university study under proper guidance and without serious distractions for at least three years, and have satisfied the requirements mentioned below.

The Board of University Studies reserves the right to decide in each case whether the preliminary training has been satisfactory, and which, if any, years of graduate work not spent in this University are to be considered as spent in accordance with these regulations.

At least one academic year must be passed in this University, and, except in extraordinary cases, the one preceding the final examinations.

Principal and Subordinate Subjects

To become a candidate for the degree the student must select a subject on which he intends to concentrate his efforts and must place himself under the guidance of the professor of this subject. This is called his "principal" study. With the advice of the professor and subject to the approval of the Board of University Studies, the student must choose two other studies, known as "subordinate" subjects, which he must follow. These are called the "first subordinate" and the "second subordinate," and the two should represent one year's work, two-thirds of this being devoted to the former.

Acceptance of the Candidate

A student who wishes to be considered a candidate for the degree must make written application to the Board of

University Studies, upon a form provided for this purpose, at least one academic year[1] before he expects to present himself for his final examinations.[2] Before this application can be considered he must satisfy the University examiners that he is able to translate at sight French and German journals and monographs relating to his principal subject.

Requirements for the Degree

Certain requirements, as outlined above, must be met by a candidate in order to obtain the degree; but the distinctive requirement is the presentation of evidence that the candidate has carried to successful completion an original investigation in his principal subject upon a theme approved by his chief professor. The results of this investigation must be embodied in a dissertation, and submitted to the Board of University Studies.

Regulations Concerning the Dissertation

a. The dissertation must be prepared for presentation to the Board of University Studies in accordance with instructions to be obtained from the Registrar, and to every such dissertation must be appended a brief biographical sketch of the author. It must be submitted to the Board at least four weeks before the examinations in the principal subject.

b. The Board shall designate two or more referees, who shall make a written report on the dissertation.

Regulations Concerning the Examinations

a. The candidate shall be subjected to written examinations in his principal subject,[3] and, whenever practicable.

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[1] Applications made by students at the beginning of their final year must be in the hands of the Registrar by October 20.

[2] A student who has been accepted as a candidate for the degree of Doctor of Philosophy will be considered to have satisfied the requirements for acceptance as a candidate for the degree of Master of Arts.

[3] If a student who has absolved the examinations required for the degree of Master of Arts in this University becomes a candidate for the degree of Doctor of Philosophy, he may, at the discretion of the professors, be excused from any further written examinations in the particular courses in which he has already passed.

in both his subordinate subjects. The results of the examinations shall be reported in writing to the Board of University Studies; and, if these reports and the reports on the dissertation are satisfactory, the candidate shall be admitted to an oral examination in his principal and first subordinate subjects before the Board or a section of it.

b. The written examinations in the subordinate subjects may be taken at any time during the candidate's residence at the University, subject to the judgment of the examiners.

c. In the written examinations no session shall exceed five hours. In the oral examinations before the Board the time allotted shall be one hour, and three-quarters of this shall be devoted to the principal subject.

Other Regulations

Before the candidate is admitted to the oral examination he must signify his intention, in the event of his receiving the degree, to print his dissertation in full or in part, and to satisfy the requirements specified below.

If the dissertation is not printed in full, an abstract must be prepared or a portion selected, with the approval of the professor, which shall contain when printed not less than twenty-four octavo pages.

One hundred and fifty printed copies of the dissertation must be presented to the University within one year from the time when the degree is conferred. These must have the prescribed title page and must contain the biographical sketch.

The candidate is advised to have these printed copies ready for presentation before the date for the conferring of the degree; otherwise a deposit of $50.00 with the Treasurer of the University must be made. This deposit is returned when the printed copies are presented to the University. If these have not been received within the year specified, the Board of University Studies may declare the deposit forfeited and may apply the amount in printing the dissertation or a part of it.

Conferring the Degree

The names of the candidates found worthy of the degree will be submitted to the Board of Trustees, and with their approbation the degree will be publicly conferred.

Choice of Subordinate Subjects

The following suggestions are not to be understood as limiting the attention of the student to the subjects directly connected with the requirements for the degree. In order to secure the full benefit of university training, it is often desirable to broaden the outlook through acquaintance with other subjects—especially those that are conterminous with the chosen field of study. It is also important to learn to appreciate the methods and to come under the influence of other personalities than those that dominate the student's special line of work.

In the choice of subordinate subjects to be associated with a principal one, considerable freedom is permitted by the Board of University Studies. Certain combinations have been recognized officially in previous years, and others are admissible.

In the study of any principal subject the knowledge of a limited number of other subjects is, as a rule, essential. If, on entrance, the student is not sufficiently proficient in these, he must follow courses in this University which will give him the requisite knowledge. These courses need not, however, of necessity be offered as first and second subordinates.

In order to guide the student in his selection of subordinate studies, a number of statements are given below in tabular form, which apply to the various departments of study in this University. These statements furnish—

I. In case the student selects a given subject as his principal one—

a. A list of the other subjects an adequate knowedge of which is considered essential.

b. A list of subjects which in the past have been accepted as first or second subordinates in connection with the principal subject.

II. In case the student selects a given subject as his subordinate one—

A list of the courses in that department, which are ordinarily considered sufficient.

Botany

I. *a.* Physics, Chemistry, General Biology, Zoology.

b. Zoology, Physical or Organic Chemistry, Geology, Physiology, Pathology, Plant Physiology.

II. An undergraduate course, with laboratory work; one of the graduate courses.

Chemistry

I. *a.* Mathematics (through the Calculus), General Physics, Mineralogy, Physical Chemistry, Applied Electricity.

b. Mathematics, Physics, Mineralogy, Geology, Physical Chemistry, Biology 1, Applied Electricity, Bacteriology.

II. Chemistry A II or A III, Physical Chemistry, with corresponding laboratory courses.

Classical Archæology

I. *a.* Latin and Greek.

b. Latin, Greek, History, Sanskrit and Comparative Philology, Italian or another Romance language.

II. Five hours weekly for two years for the first subordinate; five hours weekly for one year for the second. Prescribed course of reading.

Those who make Classical Archæology a principal subject are urged to plan for at least one year of residence in Europe, preferably in the American School of Classical Studies at Athens or in the American School of Classical Studies in Rome. For advanced students of Roman Archæology, a reading knowledge of Italian is indispensable.

Education

The selection of the first and second subordinate subjects

is made in accordance with the interests and purposes of the student.

English

I. *a.* Gothic, Old High German, Middle High German, Old Norse, Old French, German and French Literature.

b. German, French, Italian, Spanish, Greek, Latin, Sanskrit, History, Philosophy.

II. Courses in the history of the Language and the Literature, and some special work in selected periods or subjects.

French, Spanish, or Italian

I. *a.* Two Romance Languages in addition to French; Latin, German, English; if practicable, Greek.

b. Other Romance Languages; Sanskrit, Greek, Latin, German, English, History.

II. First subordinate: Courses in the history of the Language and the Literature. Second subordinate: Courses in the history of the Literature, or of the Language and the Literature.

Geology

I. *a.* Students who take Geology as their principal subject, are allowed to select courses suitable as a training for general geology and teaching, or those which lead to specialization in Paleontology, Stratigraphic Geology, Petrography, Mineralogy, or Geological Physics. All students are expected to be familiar with the matter given in the elementary or undergraduate courses.

b. (1) Biology, (2) Chemistry, (3) Physics, (4) Petrography, (5) Mineralogy, (6) Paleontology.

Nos. 1–3 may be taken as second subordinates by all students in Geology.

Nos. 4–5 may be taken as a first subordinate by students specializing in Paleontology or Stratigraphic Geology, who are advised to take Biology or Physics as a second subordinate.

No. 6 may be taken as a first subordinate by students specializing

in Petrography or Mineralogy, who are advised to take Chemistry or Physics as a second subordinate.

II. For students in Physics: Geological Physics, Exploratory Surveying, Crystallography—Optical Mineralogy (Geology 1 in part, Advanced Mineralogy in part).

For students in Chemistry: Geology 3 and Economic Geology, Geology 1, Advanced Mineralogy.

For students in Biology: Geology 1 or 2, Paleontology and Paleobotany, Historical Geology.

German

I. *a.* One or more of the languages of the earlier Indo-European Group (Latin, Greek, Sanskrit), English (Philology and Literature), French Literature, Germanic Philology (in combination with German Literature as major subject), German Literature (in combination with Germanic Philology as major subject).

b. English, French, Latin, Greek, Sanskrit, Spanish, History of Philosophy, German Philosophy, German History.

II. German as first subordinate—Courses in German Literature and Germanic Philology, two years' membership in the Germanic Society.

German as second subordinate—Courses in German Literature and in the History of the German Language, or (for students of Linguistics) courses in Germanic Philology, with some attention to special periods of German Literature; one year's membership in the Germanic Society.

Greek

I. *a.* Latin and English (language and literature).

b. Latin, Classical Archæology, Sanskrit and Comparative Grammar, English, a Romance language, a Semitic language, Philosophy, History.

II. Attendance on the Seminary and other courses five hours weekly for two years for the first subordinate, one year for the second subordinate. Prescribed courses of reading.

History

I. *a.* Political Economy, Political Science, Latin, French, German.

b. Political Economy, Political Science, Philosophy, English, French.

II. For the second subordinate, lectures, with collateral research, two hours a week for two years, either in European, English, or American history; for first subordinate, four hours a week for two years, with choice in the same subjects.

Latin

I. *a.* Greek and English (language and literature).

b. Greek, Sanskrit and Comparative Philology, Classical Archæology (Greek and Roman), English, a Romance language, a Semitic language, History.

II. Attendance on the Seminary and at least three lectures a week during two years for the first subordinate subject, one year for the second—in both cases with prescribed courses of reading in Roman literature.

Those who make Latin their principal subject must take Greek as one of their subordinate subjects. For the requirements in Greek as a subordinate subject see under Greek. They must also follow at least one regular course in Latin Epigraphy and Palæography, as well as in the Comparative Grammar of the Indo-European languages.

Mathematics

I. *a.* While no other subject can be said to be essential to the study of mathematics, it is very desirable that one taking up graduate work should have adequate knowledge of natural sciences, particularly of physics.

b. Physics, Geological Physics, Applied Electricity, Astronomy, History of Philosophy, Psychology.

II. Two or more of the following: Elementary Differential Equations, Theory of Functions, Vector Analysis, Dynamics.

Oriental Seminary

I. *a.* For Hebrew as the principal subject—German, Greek, Latin, Arabic, History of the Ancient East, Biblical Antiquities, Geography of Western Asia.

b. Assyrian, Arabic, Syriac, or Ethiopic, as the first or second subordinate subject; Egyptology, History of the Ancient East, History of Philosophy, Greek, Sanskrit, Philippine languages, as the second subordinate.

II. For Hebrew as first subordinate—Comparative Hebrew Grammar, Hebrew Prose Composition, Old Testament Seminary.

For Hebrew as second subordinate—the second year's course in Hebrew and private reading of at least fifty chapters of the Hebrew Bible.

Philosophy

The choice of subordinate subjects depends upon the character of the direction the student elects to give to his work in Philosophy. Suggestions of suitable minors, to be correlated with different types of philosophical study, are given in the announcement of the department.

Physics

I. *a.* Chemistry and Mathematics.

b. Chemistry, Physical Chemistry, Mathematics, Astronomy, Applied Electricity, Geological Physics.

II. Physics 1, 2, or 3, with corresponding laboratory courses, Advanced General Physics, Applied Electricity.

Astronomy

II. Celestial Mechanics, Cosmical Physics, with observatory work.

Physiology (Animal and Human)

I. *a.* Physics, Chemistry, and Biology.

b. Zoology, Botany, Physics, Chemistry, Physiological Chemistry.

Plant Physiology

I. *a.* Physics, Chemistry, Botany, Zoology, Animal Physiology, Climatology.

b. Chemistry, Climatology, Physics, Botany, Geology.

II. For the first subordinate, courses I and III, I and IV, or course II; for the second subordinate, course I.

Political Economy

I. *a.* History and Political Science.

b. History, Political Science, Philosophy, English, Mathematics, Biology.

II. For the first subordinate, two graduate courses for two years, with prescribed reading; for the second, two graduate courses for one year, with prescribed reading.

Political Science

I. *a.* History, Political Economy, and the Principles of Private Law.

b. History, Political Economy, Philosophy, the Principles of Private Law.

II. Two hours' lecture work, with collateral reading, for two years, for the second subordinate; four hours' work for two years for the first subordinate.

Psychology

I. *a.* Two at least of the following, according to the specific line of psychological work undertaken: Physics, Biology, Anatomy, Physiology, Pharmacology, Philosophy, Art, Philology, Psychiatry, Economics.

b. Psychiatry, Physics, Anatomy, Biology, Philosophy, Education.

II. The selection of work for subordinates is dependent upon the nature of the student's major work.

Sanskrit and Comparative Philology

I. *a.* Classical or Modern Philology, History, Philosophy.

b. Greek, Latin, Germanic Philology, English, Semitic Philology, Philosophy.

II. For the first subordinate subject, a course in Sanskrit, two lectures a week during two years, and attendance on the Vedic Seminary for a half-year, one hour a week; for the second subordinate subject, a course in Sanskrit, two hours a week during a year and a half.

In no case has a student whose principal subject was Sanskrit and Comparative Philology restricted himself to two subordinate subjects. As a rule, Avestan, Lithuanian, Gothic, English, and other subjects figured among his courses, in addition to the principal and the two subordinate subjects.

Zoology

I. *a.* Two or more of the following: Chemistry, Physics, Botany, Geology, Physiology, Psychology.

b. Botany, Plant Physiology, Animal Physiology, Geology, Anatomy, Pathology, Psychology, Physical Chemistry, Bacteriology.

II. Biology 1, Biology 2, Biology 3, a graduate course.

MASTER OF ARTS

The degree of Master of Arts is offered to students who have obtained the baccalaureate degree from a college of good standing, have then followed courses of university study under proper guidance for at least two years,[1] and have satisfied the requirements mentioned below.

The Board of University Studies reserves the right to decide in each case whether the preliminary training has been satisfactory, and, if part of the time devoted to graduate work has been passed by the candidate away from the University, whether this time may be considered as spent in accordance with these regulations.

The student must be in attendance at the University during the year immediately preceding the final examinations, unless, for some extraordinary reason, special permission to the contrary is granted by the Board of University Studies.

The program of the "Summer Courses" includes courses in certain subjects, which, provided they are approved by the Board of University Studies, will be accepted in partial fulfilment of the requirements for this degree, in accordance with the following provision: The residence requirement for this degree may be satisfied by attendance and study during not less than three sessions of the summer courses and one year of resident study during the regular session.

To be admitted as a candidate for this degree, the student must make application,[2] according to a prescribed form, to the Board of University Studies at least one academic year[3] before he expects to present himself for his final ex-

[1] Persons engaged in other pursuits, who are able to give only a portion of their time to study, may, by special permission obtained from the Board of University Studies, be allowed to distribute the work of these two years through several years.

[2] A student who has been accepted as a candidate for the degree of Doctor of Philosophy, will be considered to have satisfied the requirements for acceptance as a candidate for the degree of Master of Arts.

[3] Applications made by students at the beginning of their final year must be in the hands of the Registrar by October 20.

aminations. The required work may be limited to one subject only, or it may embrace a principal subject and one or two allied subjects. The professor in charge of the principal subject must be consulted in the selection of the allied subjects.

In order to obtain the degree the candidate must satisfy two requirements:

He must prepare a satisfactory essay, and must pass examinations in his principal subject. The essay must be upon a subject approved by the professor in charge of the principal subject, and must be completed and submitted to the Board of University Studies at least four weeks before the time of the final examinations. Two referees will then be appointed to examine the essay and to present a written report on it to the Board. This essay shall be prepared for presentation to the Board in the manner prescribed for the dissertation submitted for the degree of Doctor of Philosophy.

If the report on the essay is satisfactory, the candidate will then be admitted to the examination. However, on the subjects followed during any academic year the candidate is permitted to take examinations at the end of that year or at the beginning of the next, and, provided these examinations are satisfactory, he will not be examined again in the same courses. Reports of these examinations will be made to the Board of University Studies.

The candidates found worthy of the degree will be reported to the Board of Trustees, and with their approbation the degree will be publicly conferred.

COLLEGE OF ARTS AND SCIENCES

The Johns Hopkins University makes ample provision for collegiate instruction. The courses offered to undergraduates are maintained with no less care and thoroughness than those intended for advanced students; many of the most experienced members of the academic staff coöperate in the conduct of them. No small part of the influence and usefulness of the University is in connection with the collegiate classes, in which, since 1876, more than thirty-one hundred students have been enrolled.

Certain features of organization and administration have contributed to the effectiveness of the undergraduate work. The scrupulous observance of the distinction between the disciplinary methods appropriate to college teaching and the freer methods of advanced instruction; the arrangement of studies in certain combinations, which permit, under due regulation, a wide liberty of choice; the facilities afforded young men of superior capacity for carrying their studies beyond the requirements of graduation; the influence upon younger pupils of the presence of a large body of graduate scholars conducting investigations in all the great departments of learning,—these conditions have proved favorable to the development of earnestness and scholarly devotion.

REGULATIONS AS TO CHOICE OF COURSES

Committees

All matters referring to the courses of undergraduate instruction are under the control of the Board of Collegiate Studies, consisting of the President of the University and of representatives from each of the chief departments of undergraduate study. This Board appoints the following standing committees:

1. The Committee on Academic Rules and Regulations, in charge of all questions of general administration.
2. The Committee on Admission and Advanced Standing.
3. The Committee on Scholarships and Honors.
4. The Committee on Student Affairs.
5. The Committee on the Curriculum.
6. The Committee on Summer Courses and College Courses for Teachers.

The Dean of the College Faculty is *ex officio* a member of each of these committees.

Advisers

The Dean of the College Faculty selects from the collegiate instructors a sufficient number, who form a body called "Advisers of First-year Students." Each student upon admission is assigned to one of these Advisers, under whose direction he selects his studies for the first year.

The subjects taught in the collegiate classes are grouped, for convenience, in five sections:

1. Latin, Greek, Classical Archæology, Hebrew, Comparative Philology.
2. English, French, German, Spanish, Italian.
3. History, Political Economy, Political Science, Philosophy.
4. Mathematics, Physics, Astronomy, Chemistry, Philosophy.
5. Biology, Chemistry, Geology, Psychology.

The instructors of the various classes in each section form a committee, one of whose functions is to assign its individual members to act as Advisers to students electing subjects in that section as "majors." * Immediately after Easter of his first year of residence, each student, having made his selection of some definite subject as his "major," is referred to the proper Committee, is assigned to an Adviser, and thereafter selects his courses under the Adviser's direction.

Each Adviser endeavors to establish relations of friendliness and confidence with the students assigned to his care. He not only gives counsel in regard to the selection of studies, but promotes the welfare of his students in every practicable way.

Reporting of Courses

During the month of May in each year all students in residence must consult their Advisers with regard to the courses to be taken in the following academic year, and must report the courses selected to the Rregistrar *before June* 1. A fine of one dollar a day will be levied for delay in making this report. Changes may be made by notification to the Registrar at any time before September 24, 1919; after that date only with the approval of the Dean. Students who fail to attend courses selected, or who drop courses without the approval of the Dean, will be marked absent and will be subject to the regulations of the Committee on Absences.

Illustrative Combinations

In the following pages are outlined certain combinations of courses which satisfy the requirements for the degree of Bachelor of Arts and which have been approved by the Board of Collegiate Studies. Other combinations are possible, including combinations of courses in the college and the department of engineering in order to secure suitable training for service in the United States Army.

* For the definition of a "major" see page 268.

A. Latin or Greek being the Major

First year

English Composition 1
French *or* German Elements
Latin 1
Greek 1
Military Science *or*
Physical Training

Second Year

German *or* French Elements
English Literature
Latin 2
Greek 2
History 1
Military Science *or*
Physical Training

Third year

Latin 3
Greek 3
Philosophy
Science (with laboratory)
Elective

Fourth year

Latin 4
Greek 4
Comparative Philology
Two electives

Students selecting Combination A are urged to take a second year in at least one of the modern languages.

B. English being the Major

First year

English Composition 1
Latin 1
French 1
Biology *or* Chemistry *or* History 3 *
Military Science *or* Physical Training

Second year

English Literature 1
German *or* Spanish *or* Italian
Political Economy 1
Laboratory science *or* History 4
Public Speaking 1
Military Science *or* Physical Training

Third year

English Literature 2, 3, 4, 5, *or* 6
Philosophy 1
English Composition 2
Public Speaking 2
Laboratory science (if not previously absolved)
Electives (e. g., English Literature, Greek, Latin, Classical Archæology, French, German, Spanish, Italian, History, Political Economy)

Fourth year

English Literature 2, 3, 4, 5, *or* 6
Electives (e. g., English Literature, English Composition, Greek, Latin, Classical Archæology, Comparative Philology, Romance Languages, History, Political Science, Philosophy 2)

The course of study indicated above is one of the many combinations that may be made with English Literature as the major subject.

* Students who elect English Literature as their major subject should, if they take only one course in History, select English History.

C. A Modern Language being the Major

First year	*Second year*
English Composition 1	English Literature
Latin 1	Two of these: French, German, Spanish, and Italian
French, German, *or* Spanish	Two electives
History, Mathematics, Greek, *or* Science	Military Science *or* Physical Training
Military Science *or* Physical Training	
Third year	*Fourth year*
Philosophy	Two or three courses in modern language
Two or three courses in modern language	Psychology
History and other electives to make five courses in all.	Electives to make five courses in all

During the four years elective courses must include one course in History, Political Economy, or Philosophy, and one laboratory course.

D. History being the Major

First year	*Second year*
English Composition 1	English Literature
French 1, German 1, *or* Spanish 1	History 1
Latin 1 (advised)	German 1, French 1, *or* Spanish 1
Mathematics 1 *or* Physics 1	Political Economy 1
Military Science *or*	Elective
Physical Training	Public Speaking 1
	Military Science *or*
	Physical Training
Third year	*Fourth year*
History 2 *or* 3.	History 3 *or* 2 (advised)
Philosophy	History 4
Political Economy 2	Political Science 1
Two electives (including one Science)	Two electives

History 2 and 3 are given in alternate years; in 1919-20 History 3 is offered.

E. Political Economy being the Major

First year

English Composition 1
German 1 *or* French 1
Latin 1
Mathematics 1 } (advised)
Military Science *or*
Physical Training

Second year

English Literature
French 2 *or* German 2
Political Economy 1
History 1 *or* 2 (advised)
Public Speaking
Military Science *or*
Physical Training

Third year

Philosophy
Political Economy 2
History 3
Political Science 1 } (advised)
Commercial Geography

Fourth year

Political Economy 3 *or* 4
History 4 (advised)
Biology 1
Two electives

F. Mathematics being the Major

First year

English Composition 1
French 1, German 1 *or* Spanish 1
Mathematics 1
One of these: Biology, Chemistry, History, Political Economy
Military Science *or*
Physical Training

Second year

English Literature
French 1, German 1 *or* Spanish 1
Mathematics 2
Physics 1
Military Science *or*
Physical Training

Third year

Mathematics 3 *or* 4
Physics 2
Philosophy
Two electives

Fourth year

Mathematics 4 *or* 3
Physics 3 or an elective
Three electives

G. Physics being the Major

First year

English Composition 1
French 1 *or* German 1
Chemistry 1
Mathematics 1
Military Science *or*
Physical Training

Second year

English Literature
German 1 *or* French 1
Mathematics 2
Physics 1
Military Science *or*
Physical Training

Third year

Physics 2
Mathematics 3
History, Political Economy, *or*
Political Science
Two electives

Fourth year

Physics 3
Mathematics 4
Philosophy
Two electives

Among the electives appropriate to Physics as a major are Astronomy, Geology, Psychology, Education, Drawing, Public Speaking, or additional courses in Languages, History, Political Economy, or Chemistry.

H. Chemistry being the Major

ACADEMIC

First year

Chemistry 1
English Composition 1
French *or* Spanish
Mathematics 1
Physical Training *or*
Military Science

Second year

English Literature 1
Mathematics 2
Physics 1
History *or* Political Economy
Physical Training *or*
Military Science

Third year

Chemistry 2
German *or* French
Geology 1 *or* Biology 1
Elective (if Military Science
was not selected)

Fourth year

Chemistry 3
Chemistry 4
Two electives

I. Preliminary Medical

First year

Chemistry 1
English Composition 1
French
Mathematics 1
Physical Training *or*
Military Science

Second year

English Literature
German
Physics 1
Drawing (if Military Science is not selected)
Physical Training *or*
Military Science

Third year

Biology 1
Chemistry 2
Political Economy *or* History
Elective

Fourth year

Biology 2
Chemistry 3
Two electives

If a student takes the course outlined below, it is possible for him to enter the Medical School at the end of the third year with 110 points. The degree of Bachelor of Arts is conferred at the end of the first year in the Medical School, if the work has been satisfactory.

First year

Biology 1
Chemistry 1
English Composition 1
Mathematics 1
Physical Training

Second year

Biology 2 *or*
Chemistry 2
English Literature
German *or* French
Physics 1
Physical Training

Third year

Biology 2 *or* 3
Chemistry 3
French *or* German
Philosophy
Psychology

J. Biology being the Major

First year

Chemistry 1
English Composition 1
French 1
Mathematics 1
Physical Training

Second year

Biology 1
English Literature
Freehand Drawing
Physics 1
Physical Training

Third year	*Fourth year*
Biology 2	Biology 3 *or* 4
Chemistry 3	Geology 1
German Elements	German 6
Philosophy	Psychology

In order to enter the Medical Department at the end of three years, with 110 credits, the above group may be modified as follows: In the second year add German Elements and omit Freehand Drawing; in the third year add Psychology and German 6 as well as one elective, such as History 3, Italian 1, or Spanish Elements.

K. Geology being the Major

First year	*Second year*
English Composition 1	English Literature
French 1 *or* German 1	German 1 *or* French 1
Mathematics 1	Biology 1 *or* Mathematics 2
Chemistry 1	Physics 1
Military Science *or*	Military Science *or*
Physical Training	Physical Training
Third year	*Fourth year*
Geology 1	Geology 2
Chemistry 2 *or* Physics 2	Geology 3 *or* 4
Philosophy	History *or* Political Economy
Elective	Elective

Elective Courses

A student may take as an elective any course that he is prepared to enter. In addition to the courses already described in the previous schedules, any of which may be chosen, electives are regularly offered in the following subjects:

Latin	English and Anglo-Saxon	Zoology
Greek		Botany
Roman Life	French	History
Greek and Roman Literature	Spanish	Political Economy
	Italian	Political Science
Classical Archæology	Mathematics	Philosophy
Sanskrit	Chemistry	Psychology
Comparative Philology	Physics	Education
	Astronomy	Drawing
Hebrew	Geology	Military Science
German		

SCHEDULE OF HOURS

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8.30	Biology 3 Chemistry 2 French 1 A French Elements A Greek 2 History 4 Psychology 1 Spanish Elements	Biology 3 Chemistry 2 French 1 A French Elements A Greek 2 History 4. Psychology 1 Spanish Elements	Biology 2 French 5 Geology 3 Latin 2 Physics 3 Political Economy 1 Political Science 1	Biology 2 Geology 3 Latin 2 Physics 3 Political Economy 1 Political Science 1	Biology 2 Geology 3 Latin 2 Physics Political Economy 1 Political Science 1	Laboratory (9-12)
9.30	Chemistry 1 English Literature 2 English Literature 3 French 1 B French Elements B Geology 1 German 1 German Elements Italian 1 Latin 1 Mathematics 2 Spanish 1	Chemistry 1 English Literature 2 English Literature 3 French 1 B French Elements B Geology 1 German 1 German Elements Italian 1 Latin 1 Mathematics 2 Spanish 1	English Literature 1 Greek 1 Mathematics 1 A Philosophy 1 Political Economy 3 Political Economy 4	English Literature 1 Greek 1 Mathematics 1 A Philosophy 1 Political Economy 3 Political Economy 4	English Literature 1 Greek 1 Mathematics 1 A Philosophy 1 Political Economy 3 Political Economy 4	Laboratory (9-12)
10.30	Chemistry 3 English Composition 1 French 2 German 2 Greek 3 Mathematics 3 Mathematics 4 Physics 1 Political Economy 2	Chemistry 3 English Composition 1 French 2 German 2 Greek 3 Mathematics 3 Mathematics 4 Physics 1 Political Economy 2	Chemistry 3 English Composition 1 French 2 German 2 Greek 3 Mathematics 3 Mathematics 4 Physics 1 Political Economy 2	Biology 3 Chemistry 2 French 1 A French Elements A Greek 2 History 4 Psychology 1 Spanish Elements	 French 1 A French Elements A Military Tactics A (Freshman) Physics 1 Spanish Elements	Laboratory (9-12)
11.30	Biology 1 English Literature 4, 6 French 3 Geology 2 German 3 History 1 [History 2] History 3 Latin 3 Mathematics 1 B Military Tactics (Sophmore) Philosophy 2 Physics 2	Biology 1 English Literature 4, 6 French 4 Geology 2 German 3 History 1 [History 2] History 3 Latin 3 Mathematics 1 B Military Tactics (Sophmore) Philosophy 2 Physics 2	Biology 1 English Literature 4, 6 French 4 Geology 2 German 3 History 1 [History 2] History 3 Latin 3 Mathematics 1 B Philosophy 2 Physics 2	Chemistry 1 English Literature 2 English Literature 3 French 1 B French Elements B Geology 1 German 1 German Elements Italian 1 Latin 1 Mathematics 2 Spanish 1	 English Literature 5 French 1 B French Elements B German 1 German Elements Latin 1 Military Tactics B (Freshman)	Laboratory (9-12)
1-4	Laboratory and Mathematical Conferences.					

ADMISSION TO THE DEPARTMENT OF MEDICINE

Students who intend to enter the medical department of this University should arrange their work so as to include the following courses: Mathematics and Physics, each for one year; French and German for one or two years; English and Biology, each for two years; Chemistry for three years; and one of the following—History, Political Economy, Philosophy. These students are advised by the Medical Faculty to include courses in Biology and the Chemistry of the Compounds of Carbon in their last year. Their attention is called especially to the desirability of completing their undergraduate work in three years, and accordingly to the conditions under which this can be done (see page 269).

As Latin is no longer required for admission to the College of Arts and Sciences but is a prerequisite for admission to the Medical Department, candidates wishing to study medicine must secure at least two years of Latin before entering the University.

By a special arrangement with the Medical Faculty, students who have completed the courses listed above, and who have to their credit 110 points toward graduation, may be admitted to the Medical School, and will receive the degree of Bachelor of Arts when they have satisfactorily completed one year of work therein.

SPECIAL COURSE PREPARATORY TO THE SCHOOL OF HYGIENE

The School of Hygiene admits students as candidates for the degree of Bachelor of Science in Hygiene who present a certificate of the completion of at least two years of work in an approved college, and who have had adequate courses in biology, physics, and chemistry, including organic chemistry. To satisfy these conditions, the College of Arts and Sciences offers the following course:

First Year	*Second Year*
English Composition 1	Chemistry 3
Mathematics 1	Biology 1
Physics 1	Two of these:
Chemistry 1	{ English Literature, French, *or* Spanish; Mathematics 2 }
Military Science *or* Physical Training	Drawing
Surveying (*in June*)	Military Science *or* Physical Training

Upon completion of this preparatory course students will be matriculated in the School of Hygiene and will pursue the studies prescribed therein for the last two years of the course.

REQUISITES FOR THE DEGREE OF BACHELOR OF ARTS

As evidence that the collegiate course has been successfully completed, the degree of Bachelor of Arts is conferred at its close. The degree signifies in the case of every recipient such instruction in language, in mathematics, in the physical and natural sciences, in literature, philosophy, and history, as is believed to be essential to a liberal education.

The courses of study are selected (as already stated) under the guidance of Advisers; and, expressed in mathematical language, 125 points * are required for graduation. At the end of his first year of residence, each student selects some subject called his major which he wishes to study with special attention during his remaining years of residence; and during these years he must follow at least three courses in this subject and at least two in some cognate subject approved by his Adviser.

All candidates for a degree must take courses in the following subjects:

* For the definition of a "point" see page 272.

English Composition.
English Literature.
One of these: Latin, Greek, Mathematics, Physics, Chemistry, Biology.
One laboratory course, unless chosen as above.
One of these: History, Political Economy, Philosophy.
Two courses in Modern Language (only one of which may be elementary).
Military Science or Physical Training.

The remaining courses necessary to complete the number of required points are chosen by the student, subject to the regulations of the Board of Collegiate Studies and to the approval of the Adviser.

In their first year of residence students should take the following courses:

a. English Composition.
b. French, German, or Spanish.
c, d. Two of these: Latin, Greek, Mathematics, Physics, Chemistry, Biology, History, Political Economy.
e. Military Science or Physical Training.

Period of Residence. A student may be admitted to advanced standing, in accordance with the regulations given on page —, but in all cases the candidate must pursue the last year of his undergraduate course in this institution.

In general, four years of residence are necessary for the completion of the courses required for a degree. A capable student may, however, complete this work in three years. Such a student may—

(1) anticipate certain of the courses by special examination at entrance.*

The courses that may be thus absolved are first-year courses in languages (except English), in Mathematics, and in Chemistry. Under ordinary circumstances a student is not allowed to anticipate at entrance more than two courses.

* A form of application for this privilege is provided and must be secured from the Registrar.

The examination for absolving courses at entrance will be held at or near the time of the regular matriculation examination in September, and those who wish to anticipate courses ***must make application, and must take the examination in the September next preceding entrance.*** In case a condition is incurred, it may not be absolved until the September examinations of the following year.

The application should be in the hands of the Registrar of the University ***at least one week before the examination.***

Students who have had satisfactory courses in preparatory schools in the subjects above named, but who are not ready to take the examination at entrance, may be examined at the ***beginning of the following year.*** No student, however, who has been permitted to take an advanced course in any subject, may afterwards pass off the elementary part of the subject in order to receive credit therefor.

(2) present himself, at the beginning of an academic year, for examination in a single course, provided the Committee on Admission and Advanced Standing, being satisfied that the student can obtain competent instruction, has authorized him, *in advance,* to prepare this course during the summer vacation.* [Courses which are helpful in this preparation. are given in this University during the summer; see special announcement of Summer Courses.]

In all cases the instructor must be approved by the examiner before whom the student is to come, and must not be changed except with the examiner's consent, and the instruction must conform to the directions of the examiner in (*a*) the number of hours per week and the number of weeks, and (*b*) the amount and quality of the work done. The instruction must be regular and systematic, and must approximate in number of hours the time given to the course in the University. It must constitute a full equivalent of that course. In no case will private study be accepted as the equivalent of a college course.

The examination will be both oral and written, and must be reported to the Registrar upon the usual blank. The time for the examination will be determined by the Committee.

(3) take, under certain conditions, in any year of residence except the first, a greater number of courses than is called for in the program.

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* A form of application for this privilege is provided and must be secured from the Registrar.

Students who give evidence of special ability by passing at entrance one or more courses for advanced standing, or by attaining a high grade in the Hopkins Scholarship examination, or by submitting evidence of exceptional proficiency from the schools in which they were prepared for college, may be permitted to take in the first year one or more courses additional to the number scheduled for that year.

(4) offer 119 points for graduation instead of 125, in accordance with the following provision:

In case a student has an average of not less than 9 for the work of the next to his last year, and has not received a mark as low as 7 for any of his courses since admission to the University, he need offer only 119 points for graduation.

A student whose average in his studies for each of his last two years has not been less than 9, and who has not received a mark less than 7.5 for any of his courses during all of his years, excepting the first, shall receive his degree WITH HONOR.

GENERAL REGULATIONS

Courses. The standard course of study in the undergraduate classes of the University consists of three meetings, of one hour each, weekly through the year.

Certain courses in mathematics are accompanied by conferences, the time allotted to which is two hours per week. Courses in the sciences are accompanied by laboratory instruction, to which, in general, six hours per week are allotted, and are reckoned as one and one-half courses.

In stating the requirements for the degree of Bachelor of Arts, use was made of the expression "points." The basis of calculation is as follows:

a. Each three-hour course counts six points; each four-hour course, eight; etc.

b. Each hour of conference in mathematics counts one.

c. Each hour and a half of laboratory instruction counts one.

d. Public Speaking counts one.

e. Lectures and recitations in the course in military science count as described on page 25.

f. Additional credit of one point is given to a student who takes three courses in (a) any one of the foreign languages; (b) English Literature; (c) English Composition; (d) History; (e) Political Economy; (f) Political Science.

Examinations. Examinations of all classes are held during the week beginning with the first Monday in February and at the close of the academic year. These examinations are based upon the work of the preceding term, and the time allotted is as follows: in a three- or four-hour course, three hours; in a one- or two-hour course two hours; in a six-hour laboratory course, two sessions of three hours each in the laboratory.

All examinations are so arranged as not to interfere with the regular work of the members of the classes; additional tests may be given only if unannounced and held in place of the usual recitation.

Reports. Each instructor files with the Registrar at the close of each examination period official reports of the standing of each student in his classes. These reports are based both upon the regular exercises and the examinations and are made in terms of the system of marks adopted by the Board. The average of the two marks is the record of the student for the year.

In case of illness or unavoidable absence at the time of an examination, a provisional mark is reported, based upon class-work, essays, etc. When the examination is taken, this mark is corrected, if necessary.

Informal reports on the standing of every student are made to the Registrar on December 10 and March 25.

Marks. The scale of marks for official reports is 10, 9.5, 9, etc. The highest mark is 10, which signifies "excellence," and a mark less than 6 denotes "failure."

In case a student has failed to complete a minor portion of a course, or is required to take a reëxamination, the mark D is reported. If this D is not changed within three weeks after the close of the examination, it automatically becomes 5.

Deficiencies. A student who has a failure in the work of any half-year must make up this deficiency before the close of the autumn matriculation examinations following, or he may not count that work toward graduation.

The removal of a deficiency does not alter the student's original mark.

Attendance. Punctual and regular attendance is required. Students who are unduly absent from any course will be debarred from the regular examinations therein. They may

receive credit for the course only by passing a special examination, for which an additional fee is charged.

Probation. The Committee on Academic Rules and Regulations may at any time put on probation a student who falls behind in his work, and such student shall remain on probation until relieved by the Committee.

He must take to the Dean every two weeks a report from his several instructors stating whether or not his work during that period has been satisfactory. If the report is unfavorable, the student may be immediately suspended from the University. Furthermore, a student on probation may not take part in student activities, literary, musical, or athletic, except by special permission of the Committee.

Withdrawal from the University. A candidate for the bachelor's degree who has not passed all the matriculation examinations by the close of the September matriculation examination period at the beginning of his third year of residence, ceases to be a member of the University.

A student who, at any time, has in his record failures in three different courses, ceases to be a member of the University. A failure recorded on a previous official report, which has not been absolved by a second examination or by additional work, counts as one of these three. In case the student desires to return to the University, he must make written application to the Board of Collegiate Studies.

A student who ceases to be a member of the University because of failure in his work during his first year of residence, may be permitted to repeat the work the following year, provided he passes the entrance examinations for that year.

Limitations upon Number of Courses. No student whose work is seriously in arrears may, except by permission of the Board, take the full number of courses prescribed for undergraduates; nor may any student, except by consent of the Board, take more than fixe and one-half courses. This consent is not granted to a student in his first year of residence, except in special cases; nor in later years, if the student's

record during the precious term—taking into account all his courses—was below " 8."

A student who has not fully matriculated at the close of the September matriculation examination period at the beginning of his second year of residence, shall not be permitted to take more than four courses during that year.

Student Organizations. No student is permitted to be a member of, or a candidate for, an athletic team, a musical or dramatic club, or an editorial board, if his average standing on the preceding official report is below " 7."

No "attendant upon a single course" is permitted to represent the University on any athletic team or in any athletic competition.

Repetition of Courses. Except in the case of required courses, a student may repeat a course only by permission of the Board of Collegiate Studies.

Relations with the Graduate Departments. No course of study given in the medical department and no graduate course may count as part of the work required for the degree of Bachelor of Arts.

Graduate students following an undergraduate course are required to attend such exercises and examinations as the instructor may elect.

Relations with the Peabody Conservatory of Music. Candidates for the degree of Bachelor of Arts may offer for college credit certain courses given by the Peabody Conservatory of Music, subject in each individual case to the approval of the Committee on the College Curriculum.

Relations with other Institutions. No candidate for graduation shall, during the academic year, follow courses in any professional school, or in any institution other than the University, unless permission to do so be expressly granted by the Board of Collegiate Studies. This permission will not, in general, be given to students who are assigned the full number of hours in the University.

REQUIREMENTS FOR ADMISSION

Young men who wish to pursue undergraduate courses should apply to the Registrar of the University for a blank form of "Application for Admission," which must be filled up and *returned to the Registrar at least one week before the time set for the entrance examinations.** These examinations are held at the University in September of each year. [September 15-18, 1919.]

To accommodate those who wish to take their examinations at other times and places, the University will accept certificates from the College Entrance Examination Board for subjects passed in accordance with its regulations. (See pages 287, 288.)

As soon as the application for admission is received, it will be acted upon by the Committee on Admission and Advanced Standing, and the applicant will be notified at once of the Committee's action. If admitted, he must then indicate to the Registrar, on a form sent him, his choice of courses for the first year; at the same time he must make a deposit of five dollars to cover the enrollment fee. This fee will be returned to any student who withdraws his name by September 24, 1919, and later to those who receive scholarships in the Department of Engineering. The fee for enrollment after September 24 is *seven* dollars.

All undergraduate students, new and old, must enroll at the Registrar's Office on September 26, 27, or 29, 1919. A fine of one dollar for each day of delay will be levied against those who fail to enroll before 4 p. m. on September 29, 1919.

The Dean and the First-Year Advisers will meet all newly-admitted students on Monday, September 29, at 9 a. m., at which time students will be assigned to class sections. On Tuesday, September 30, all students must report at classes; absences will be reckoned double.

* It is of advantage to a student to make application on or about the first of June, as in this case the Committee on Admission has an opportunity to recommend any additional preparation that may appear necessary.

Applicants for Admission

Those who wish to become candidates for the degree of Bachelor of Arts must present evidence of a satisfactory knowledge of the following subjects, detailed statements regarding which are made on pages ——.

1. Mathematics:
   - a. Algebra *a* and *b* (1½ units) — (C. E. E. B., Math A, or Math. A 1 and A 2).
   - b. Plane Geometry (1 unit). — (C. E. E. B., Math. C).
2. English (3 units). — (C. E. E. B., English 1 and 2).
3. Foreign Language (4 units required; not less than two units accepted in any one language:
   - a. Latin: Grammar, Composition, and *Cæsar*, books I-IV (2 units). — (C. E. E. B., Latin 3).
     Cicero, 6 orations (1 unit). — (C. E. E. B., Latin 4).
     Vergil, books I-VI (1 unit). — (C. E. E. B., Latin 5).
   - b. Greek, c. French, d. German, e. Spanish — Elementary (2 units). — (C. E. E. B., Greek A 1, A 2, B, French A, German A, Spanish).
     Intermediate (1 additional unit). — (C. E. E. B., Greek A 1, A 2, B, C, F, G, French B, German B).
4. History (1 unit). — (C. E. E. B., History A, B, C, D, or E)
5. Electives, to make fifteen units in all, from the following subjects only:
   - a. Solid Geometry (½ unit). — (C. E. E. B., Math. D).
   - b. Plane Trigonometry (½ unit). — (C. E. E. B., Math. F).
   - c. Languages (1 to 5 units additional).
   - d. History.
   - e. Physical Geography (1 unit).
   - f. Biology (1 unit).
   - g. Botany (1 unit).
   - h. Zoology (1 unit).
   - i. Physics (1 unit).
   - j. Chemistry (1 or 2 units). — (C. E. E. B. Equivalents).

A student must have satisfied the foregoing requirements before he may be fully matriculated.*

* See list of subjects which may be passed for advanced standing (page 269).

The requirements for admission to the Department of Engineering and to the Special Course preparatory to the School of Hygiene are similar; for details, consult the catalogues of these departments.

To show that he has a satisfactory knowledge of the subjects required for entrance, the applicant must submit a certified statement, on a blank furnished by the Registrar, signed by the principal of the school in which he has been prepared for college.

If the statement is satisfactory, the applicant will be admitted to such examinations as the Committee on Admission may prescribe; if it is unsatisfactory, the Committee will prescribe such conditions as may be necessary.

Applicants are received without examination upon the certificate of the principals of certain schools in or near the city of Baltimore which are known to the Board of Collegiate Studies, provided the certificates fully and satisfactorily cover the requirements for admission. If a student's grade in any subject is less than one-fifth higher than that required by his school for graduation, he will be required to take the entrance examination in that subject.

The admission of students from other schools, and of students who have not met in full the requirements for matriculation, rests with the Committee on Admission, which considers each case on its merits. In exceptional cases only are students admitted with conditions.

Division of the Matriculation Examination

The applicant may pass a part of the examination one year before his admission to the University and receive credit, under the following conditions:

In his application *he must distinctly declare his intention to divide the examination.* The subjects passed will count toward matriculation if the applicant offers the remaining subjects within the ensuing year.

Advanced Standing

Students who desire to enter the Univrsity from other institutions of collegiate grade must submit statements showing the subjects offered for matriculation at those institutions, as well as a list of the courses, with grades, pursued after entrance. The University provides a special blank for listing the required information. (It is desirable to send a catalogue with the courses marked.) In order to receive the degree of Bachelor of Arts from the Johns Hopkins University, a student must have satisfied the conditions of matriculation and have completed the courses required of all undergraduates.*

Requirements for Matriculation

1. **Mathematics.**—Algebra; Plane Geometry; Solid Geometry; Plane Trigonometry. The requirements in Algebra are as follows:

(*a*) To Quadratics, including the four fundamental rules, the use of parenthesis, factoring, highest common factor, lowest common multiple, complex fractions, equations of the first degree in one or more unknown quantities, and problems leading to such equations, inequalities, radicals, and the use of fractional and negative exponents. [C. E. E. B. Math. A 1.]

(*b*) Quadratics and beyond, including quadratic equations in one and two unknown quantities, and problems leading to such equations, the theory of quadratic equations in one unknown quantity, ratio and proportion, the progressions, the binomial theorem for positive integral exponents, and the use of logarithms. [C. E. E. B. Math. A 2.]

It is strongly recommended that the subject of logarithms be taught in connection with the course in Algebra.

The subjects required in Plane Geometry [C. E. E. B. Math. C], in Solid Geometry [C. E. E. B. Math. D], and in Trigonometry [C. E. E. B. Math. F] are those treated in the ordinary text-books.

2. **English.**—The requirements in English for 1919 have been stated in the *Registers* of the last three years. In 1920, 1921, and 1922 the examinations will be based on the recommendations of the National Conference on Uniform Entrance Requirements in English.

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* See page 269.

The study of English in school has two main objects, which should be considered of equal importance: (1) command of correct and clear English, spoken and written; (2) ability to read with accuracy, intelligence, and appreciation, and the development of the habit of reading good literature with enjoyment.

Grammar and Composition. [C. E. E. B. English 1.]—The first object requires instruction in grammar and composition. English grammar should ordinarily be reviewed in the secondary school; and correct spelling and grammatical accuracy should be rigorously exacted in connection with all written work during the four years. The principles of English composition governing punctuation, the use of words, sentences, and paragraphs should be thoroughly mastered; and practice in composition, oral as well as written, should extend throughout the secondary school period. Written exercises may well comprise letter-writing, narration, description, and easy exposition and argument. It is advisable that subjects for this work be taken from the student's personal experience, general knowledge, and studies other than English, as well as from his reading in literature. Finally, special instruction in language and composition should be accompanied by concerted effort of teachers in all branches to cultivate in the student the habit of using good English in his recitations and various exercises, whether oral or written.

Literature. [C. E. E. B. English 2.]—The second object is sought by means of the reading and study of a number of books from which may be framed a progressive course in literature. In connection with both lists, the student should be trained in reading aloud and should be encouraged to commit to memory notable passages both in verse and in prose. As an aid to literary appreciation, he is further advised to acquaint himself with the most important facts in the lives of the authors whose works he reads and with their place in literary history. He should read the books carefully, but his attention should not be so fixed upon details that he fails to appreciate the main purpose and charm of what he reads.

A few of these books should be read with special care, greater stress being laid upon form and style, the exact meaning of words and phrases, and the understanding of allusions.

A. Books for Reading

The books provided for reading are arranged in the following groups, from each of which at least two selections are to be made, except that for any book in Group I a book from any other group may be substituted.

I. Classics in Translation:—The *Old Testament*, at least the chief narrative episodes in *Genesis, Exodus, Joshua, Judges, Samuel, Kings*, and *Daniel*, together with the books of *Ruth* and *Esther;* the *Odyssey*, with the omission, if desired, of Books I-V, XV, and XVI; the *Aeneid*. The *Odyssey* and the *Aeneid* should be read in translations of recognized literary excellence.

II. Shakespeare:—*The Merchant of Venice*; *As You Like It*; *Julius Cæsar*.

III. Prose Fiction:—Dickens: *A Tale of Two Cities*; George Eliot: *Silas Marner*; Scott: *Quentin Durward*; Hawthorne: *The House of the Seven Gables*.

IV. Essays, Biography, etc:—Addison and Steele: *The Sir Roger de Coverley Papers*; Irving: *The Sketch Book* (selections covering about 175 pages); Macaulay: *Lord Clive*; Parkman: *The Oregon Trail*.

V. Poetry:—Tennyson: *The Coming of Arthur, Gareth and Lynette, Lancelot and Elaine, The Passing of Arthur*; Browning: *Cavalier Tunes, The Lost Leader, How They Brought the Good News from Ghent to Aix, Home Thoughts from Abroad, Home Thoughts from the Sea, Incident of the French Camp, Hervé Riel, Pheidippides, My Last Duchess, Up at a Villa—Down in the City, The Italian in England, The Patriot, The Pied Piper, "De Gustibus," Instans Tyrannus*; Scott: *The Lady of the Lake*; Coleridge: *The Ancient Mariner*; Arnold: *Sohrab and Rustum*.

B. Books for Study

The books provided for study are arranged in four groups, from each of which one selection is to be made.

I. Drama:—Shakespeare: *Macbeth* or *Hamlet*.

II. Poetry:—Milton: *L'Allegro, Il Penseroso, Comus*. Book IV of Palgrave's *Golden Treasury* (First Series), with special attention to Wordsworth, Keats, and Shelley.

III. Oratory:—Burke: *Speech on Conciliation with America;* Washington's *Farewell Address*, Webster's *First Bunker Hill Oration*, and Lincoln's *Gettysburg Address*.

IV. Essays:—Macaulay: *Life of Johnson*; Carlyle: *Essay on Burns*, with a brief selection from Burns's *Poems*.

Examination.—*However accurate in subject-matter, no paper will be considered satisfactory if seriously defective in punctuation, spelling, or other essentials of good usage.*

The examination will be divided into two parts, one of which will be on grammar and composition [C. E. E. B. English 1] and the other on literature [C. E. E. B. English 2].

In grammar and composition, the candidate may be asked specific questions upon the practical essentials of these studies, such as the relation of the various parts of a sentence to one another, and

those good usages of modern English which one should know in distinction from current errors. The main test in composition will consist of one or more essays, developing a theme through several paragraphs; the subjects will be drawn from the books read, from the candidate's other studies, and from his personal knowledge and experience quite apart from reading. For this purpose the examiner will provide several subjects, perhaps eight or ten, from which the candidate may make his own selections. He will not be expected to write more than four hundred words an hour.

The examination in literature will include:

(*a*) Questions designed to test such knowledge and appreciation of literature as may be gained by an intelligent reading of the books listed above, under *Books for Reading*.

(*b*) A test on the *Books for Study*. This will consist of questions upon their content, form, and structure, and upon the meaning of such words, phrases, and allusions as may be necessary to an understanding of the works and an appreciation of their salient qualities of style. General questions may also be asked concerning the lives of the authors, their other works, and the periods of literary history to which they belong.

3. HISTORY.—The outlines of the History of Greece and Rome, or of European History, or of the History of England, or of the History of the United States, and the outlines of the geography of those countries. [C. E. E. B. History A, B, C, D, or E.]

4. LATIN.—Minimum requirement (from June, 1919):

For candidates who offer only two years of school Latin a special examination will be set in "Second Year Latin." This will presuppose reading not less in amount than Cæsar, *Gallic War*, I-IV, selected by the schools from Cæsar (*Gallic War* and *Civil War*) and Nepos (*Lives*); but the passages set will be chosen with a view to sight translation. The paper will include easy grammatical questions and some simple composition. [C. E. E. B. Latin 3.]

For candidates who offer four full years of school Latin the requirements are as follows:

1. *Amount and Range of the Reading Required*

(*a*) The Latin reading required is not less *in amount* than Cæsar, Manilian Law, and for Archias; Vergil, Aeneid, I-VI.
Gallic War, I-IV; Cicero, the orations against Catiline, for the

(*b*) The amount of reading specified above should be selected by schools from the following authors and works: Cæsar (Gallic War and Civil War) and Nepos (Lives); Cicero (orations, letters,

and De Senectute) and Sallust (Catiline and Jugurthine War); Vergil (Bucolics, Georgics, and Aeneid) and Ovid (Metamorphoses, Fasti, and Tristia).

II. *Subjects and Scope of the Examination*

(*a*) ***Translation at Sight.*** Candidates will be examined in translation at sight of both prose and verse. The vocabulary, constructions, and range of ideas of the passages set will be suited to the preparation secured by the reading indicated above.

(*b*) ***Prescribed Reading.*** Candidates will be examined also upon the following prescribed reading: Cicero, orations for the Manilian Law and for Archias, and Vergil, Aeneid, I, II, and either IV or VI, at the option of the candidate, with questions on subject-matter, literary and historical allusions, and prosody. Every paper in which passages from the prescribed reading are set for translation will contain also one or more passages for translation at sight; and candidates must deal satisfactorily with both these parts of the paper, or they will not be given credit for either part. [C. E. E. B. Latin 4 and 5.]*

(*c*) ***Grammar and Composition.*** The examinations in grammar and composition will demand thorough knowledge of all regular inflections, all common irregular forms, and the ordinary syntax and vocabulary of the prose authors read in school, with ability to use this knowledge in writing simple Latin prose. The words, constructions and range of ideas called for in the examinations in composition will be such as are common in the reading of the year, or years, covered by the particular examinations.

5. GREEK.—A systematic course of instruction extending over two or three school years is presupposed. The applicant should have read the following texts:

Xenophon, ***Anabasis***, at least four books.

Homer, ***Iliad***, at least three books, or ***Odyssey***, at least six books.

The examination includes three elements:

(*a*) Greek Grammar (both forms and syntax), based largely on Xenophon's ***Anabasis***, Books I and II. [C. E. E. B. Greek A1, A2, B.]

(*b*) Translation into English of Attic prose and of Homer, together with questions suggested by the text, including questions on Homeric life and the prosody of the Homeric poems. A part of the translation may be at sight, and in all translations simple, idiomatic English will be required. [C. E. E. B. Greek C and G.]

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* See the announcement of the College Entrance Examination Board for possible changes.

(*c*) Translation into Greek (with accents) of a passage of easy connected English prose. [C. E. E. B. Greek F.]

[In case the examination is divided, as provided for on page 56, (*a*) should be offered at the preliminary examination.]

6. FRENCH.—A. *Elementary Requirement.* [C. E. E. B. French A.] The requirements in French presuppose a systematic course extending over at least two school years, at the end of which time the student should be able to pronounce French accurately, to read at sight easy French prose, to put into French simple English sentences taken from the language of every-day life or based upon a portion of French grammar. The examination, ***which may not be divided,*** comprises:

(*a*) Questions on the elements of French grammar, including the inflection of adjectives, participles, and pronouns; the conjugation of verbs; the use of personal pronouns, common adverbs, prepositions, and conjunctions; the order of words in the sentence, and the elementary rules of syntax.

(*b*) The translation into French of short sentences illustrative of the rules of grammar, and of a short paragraph based on a French text given. In place of the translation of this paragraph, the candidate may substitute an original exercise in French on a subject set by the examiner.

(*c*) The translation, at sight, of easy French prose.

(*d*) An oral exercise in pronunciation.

The candidate should have read from 400 to 500 pages of French prose taken from the texts edited for elementary use, as listed by the leading publishers; especially those of the works of About, Bruno, Dumas, Erckman-Chatrian, Halévy, Laboulaye, Labiche and Martin, Malot, Sand, and Verne. Grammars recommended are Fraser and Squair, Olmsted, Aldrich and Foster, Chardenal.

B. *Intermediate Requirement.* [C. E. E. B. French B.] The work should comprise the reading of from 400 to 600 pages of ordinary difficulty, a portion to be in the dramatic form; constant practice in giving French paraphrases, abstracts, or reproductions from memory of selected portions of the matter read; the study of a grammar of moderate completeness; writing from dictation.

Suitable texts for the third year are Dumas' novels; Mérimée's, Coppée's, Daudet's and Maupassant's stories; Sandeau's, Sardou's, Scribe's and Augier's comedies; Hugo's *Hernani;* Rostand's *Cyrano de Bergerac.*

7. GERMAN.—A. *Elementary Requirement.* [C. E. E. B. German A.]

At least two years of school work under approved methods, with four recitations weekly, are presupposed. Candidates should have read as a minimum about 300 pages of easy dialogue and narrative prose. A large amount of easy reading is preferable to a smaller amount of more difficult character. Some instruction in word formation is also desirable. One text should deal with German life and customs.

Candidates are expected to give particular attention to pronunciation, to the acquisition of an elementary German vocabulary, and to an accurate knowledge of the rudiments of German grammar, in quantity corresponding to Vos's *Essentials of German.*

The examination comprises:

(*a*) Translation at sight of passages of simple dialogue and narrative prose. Help will be given on unusual words and constructions.

(*b*) Questions on grammatical forms and syntax. These will, as a rule, be based upon the passages assigned for translation.

(*c*) Translation into German of English sentences or easy narrative prose.

Selections may be made from such texts as the following:

Baumbach, *Der Schwiegersohn, Das Habichtsfräulein, Sommermärchen.* Gerstäcker, *Germelshausen.* Hauff, *Das Kalte Herz.* Heyse, *L'Arrabbiata, Vetter Gabriel, Die Blinden.* Mosher, *Willkommen in Deutschland.* Riehl, *Burg Neideck.* Saar, *Die Steinklopfer.* Storm, *Auf der Universität, Pole Poppenspäler, In St. Jürgen.*

B. *Intermediate Requirement.* [C. E. E. B. German B.]

This requirement presupposes a continuation of the work described under A for a period of one or two years and a minimum amount of reading of 500-600 pages. The examination comprises, as under A:

(*a*) Translation at sight from German into English

(*b*) Questions on grammatical forms and syntax.

(*c*) Translation from English into German.

Selections may be made from such texts as the following:

Arnold, *Einst im Mai, Fritz auf Ferien.* v. Ebner Eschenbach, *Krambambuli, Freiherren v. Gemperlein.* Eichendorff, *Aus dem Leben eines Taugenichts.* Hoffman, *Meister Martin der Küfner.* Keller, *Kleider machen Leute, Romeo und Julia auf dem Dorfe, Das Fähnlein der sieben Aufrechten.* Liliencron, *Anno 1870.* Meyer, *Gustav*

Adolfs Page. Moltke, ***Die beiden Freunde.*** Stern, ***Die Wiedertäufer.*** Storm, ***Der Schimmelreiter.*** Sudermann, ***Frau Sorge.*** Wildenbruch, ***Der Letzte.***

8. SPANISH.—***Elementary Requirement.*** [C. E. E. B. Spanish.] The requirements in Spanish presuppose a preparatory course of at least two school years. The student should have mastered an elementary grammar of the scope of Hills-Ford, Ingraham-Edgren, or Olmsted-Gordon; should have read at least 400 pages of Spanish prose; and should have acquired an accurate pronunciation of the language. The examination comprises:

(*a*) Questions on Spanish grammar.

(*b*) Translation into Spanish of simple English sentences taken from every-day life or based on a portion of some Spanish text read by the student.

(*c*) Translation, at sight, of easy Spanish prose.

9. SCIENCE.—Biology, Botany, Chemistry, Physical Geography, Physics, Zoology. [C. E. E. B. Equivalents.]

10. MECHANICAL DRAWING.—The elements of right-line drawing and the plotting of curves. Three drawings should be submitted. [For Engineering Students only.]

College Entrance Examination Board

The College Entrance Examination Board holds examinations at numerous places in the country. The dates in 1919 are June 16-21 inclusive. At this University they will be held in Gilman Hall.

These examinations, if passed with a mark of not less than 60 per cent., will be accepted for admission, in accordance with the following scheme of equivalents:

THE UNIVERSITY	THE BOARD
Algebra *a*.	Mathematics A 1. } = Math. A.
Algebra *b*.	Mathematics A 2. }
Plane Geometry.	Mathematics C.
Solid Geometry.	Mathematics D.
Plane Trigonometry.	Mathematics F.
Latin I.	Latin 1, 3, 4.
Latin II.	Latin 2, 5.
Greek *a*.	Greek A 1, A 2, B.
Greek *b* and *c*.	Greek C, F, G.
French A.	French A.
French B.	French B.
German A.	German A.
German B.	German B.
Spanish.	Spanish.
English *a*.	English 1.
English *b*.	English 2.
History of Greece and Rome.	History A.
Mediæval and Modern History.	History B.
History of England.	History C.
History of the United States.	History D.
Modern European History.	History E.
Science.	Science.

Examinations of 1919

In June, 1919, there will be separate blank forms for the "application for examination" and "certificate of recommendation." The former should be addressed to the College Entrance Examination Board, 431 West 117th Street, New York, N. Y.; the latter to the Chairman of the Committee on

Admission of the university, college, or scientific school that the candidate wishes to enter. Both forms may be obtained from the Secretary of the College Entrance Examination Board upon request by mail.

Provided that the application reach the College Entrance Examination Board not later than the date specified below, the examination fee will be $6.00 if the candidate is to be examined in the United States, $20.00 if the candidate is to be examined outside of the United States. The fee should be remitted by postal order, express order, or draft on New York to the College Entrance Examination Board.

Applications and fees of candidates who wish to be examined at points in the United States east of or on the Mississippi River must be received at least three weeks in advance of the examinations, that is, on or before Monday, May 26, 1919.

Applications and fees of candidates who wish to be examined at points in the United States west of the Mississippi River must be received at least four weeks in advance of the examinations, that is, on or before May 19, 1919.

Applications and fees of candidates who wish to be examined outside of the United States must reach the Secretary of the Board at least six weeks in advance of the examinations, that is, on or before May 5, 1919.

When the candidate has failed to obtain the required blank form of application for examination, the usual examination fee will be accepted if the fee arrive not later than the specified date, accompanied by a memorandum containing the name and address of the candidate, the examination centre at which he wishes to present himself, and a list of all the subjects in which he may have occasion to take the Board's examination.

Applications received later than the dates named will be accepted only upon payment of $6.00 in addition to the usual fee.

A list of the places at which examinations are to be held by the Board in June, 1919, has been published.

COLLEGE COURSES FOR TEACHERS

The University also offers collegiate instruction in the division designated The College Courses for Teachers. It is the primary aim of these courses, which were instituted in 1909, to provide teachers in public and private schools with opportunities for further personal culture and for increasing their professional equipment and efficiency. Satisfactory work accomplished in these courses is credited, under suitable regulations, towards the baccalaureate degrees, but especially towards the degree of Bachelor of Science.

The courses are open to men and women on equal terms. Persons other than teachers are regularly admitted to the courses which they are prepared to pursue, either with or without reference to the requirements of a baccalaureate degree.

The courses are conducted in coöperation with Goucher College. Men desiring to become candidates for the degree of Bachelor of Arts may acquire credits to the amount of ninety points in these courses, and complete the requirements by spending one year in residence in the academic department. A similar provision, in the case of women desiring to proceed to this degree, is made by Goucher College.

Since the opening of this division, courses have been given in the following departments: biology, chemistry, classical archæology and art, drawing, education, English, French, German, history, hygiene, Italian, Latin, mathematics, Oriental history and literature, philosophy, political economy, political science, psychology, Russian, and Spanish. Thirty-four courses have been conducted during the present session, with an enrollment of forty-six candidates for the degree of Bachelor of Science and three hundred and five special students. The June issue of the *Johns Hopkins University Circular* announces the courses that will be offered in the several departments next session.

The tuition fee is $10 per year for each hour per week. Students registered in all other divisions of the University and paying full tuition or on scholarship appointment are permitted to register in any of these courses without payment of additional fees.

The session of 1919-20 begins Monday, October 6, 1919. Further information may be had by addressing the Director of the College Courses for Teachers.

THE DEGREE OF BACHELOR OF SCIENCE

The degree of Bachelor of Science, established in 1915, is offered to both men and women completing the required program of studies in the College Courses for Teachers in accordance with the regulations. Courses in Business Economics and Summer Courses may be pursued with reference to these requirements.

In making provision for the instruction leading to the degree, the University aims primarily to afford an opportunity to students, unable to devote their whole time to study, to secure the benefits of collegiate education for either vocational or cultural purposes.

Those who wish to become candidates for the degree of Bachelor of Science must present evidence of having successfully completed courses of study equivalent to the graduating requirements of a standard four-year high school. This evidence may be offered by either of the following means:

1. Presenting certificates:
   (a) Of graduation from a secondary school having a course of study of four years, and approved by the Committee on Matriculation.
   (b) Of the College Entrance Examination Board, or other approved examining boards.
2. Passing an examination.

Fifteen units of secondary instruction are required for matriculation, of which nine are prescribed and six are elective. The subjects in which the prescribed units must be offered are:

English (*three*), History (*one*), Mathematics (Algebra and Geometry) (*two*), a Modern Foreign Language (*two*), Science (*one*).

The remaining six units may be offered by election from the following group, the number of additional units accepted in the several prescribed subjects being indicated in parentheses:

> Domestic Science (*one*) or Manual Training (*one*), Drawing (*one*), History (*one,* or *two*), Latin (*two,* or *three,* or *four*), Mathematics (*one,* or *one and a half*), Modern Foreign Language (*two,* or *three,* or *four*), Music (*one,* or *two*), Science (*one,* or *two*), Bookkeeping (*one*), Commercial Arithmetic (*one*), Commercial Geography (*one*), Commercial Law (*one*).

Advanced standing may be granted to applicants who offer approved collegiate or professional courses in a college, scientific school, normal school, training school, or technical school in advance of high school graduation.

The course of study enabling the candidate to meet the graduation requirements of one hundred and twenty points is made flexible so as to permit a choice of courses in various subjects, within limits, in accordance with the future interests of the student.

The requirements are:

1. A series of subjects required of all matriculated students, namely: English, two courses; Foreign Languages, three courses in at least two languages; History, one course, Science, one course.
2. A major consisting of three courses in one subject and of two courses in one or two cognate subjects. The required courses may not be counted as part of the work in the major.
3. Electives sufficient to complete the requirement of one hundred and twenty points.

All candidates for the degree must complete a minimum of twenty-four points in the College Courses for Teachers. The maximum credit allowed a student in one summer session is eight points.

Academic arrangements have been made with the Maryland Institute and the Peabody Conservatory of Music, of Baltimore, whereby majors in Fine Arts and in Music may be offered by completing prescribed courses of instruction in these institutions, respectively.

The fee for matriculation is $5. The charge for tuition in the College Courses for Teachers is $10 per year for each hour per week; in the Summer Courses, $25 per session. Laboratory fees for material consumed are stated in the announcements of the several courses. The fee for graduation is $5, payable before the delivery of the diploma.

SUMMER COURSES

The University has conducted annually since 1911 a six-weeks' session of instruction in the summer. The ninth session will open on Tuesday, July 8, 1919, and close Friday, August 15. The registration days for the session are July 5 and 7. Examinations will be held on August 15.

Courses will be offered to men and women, on equal terms, in biology, chemistry, economics, education, English composition and literature, fine arts, French, German, history, Latin literature, manual training, mathematics, philosophy, politics, psychology, recreation, and Spanish.

A school of observation and demonstration will be conducted in the department of education. The graded elementary school will include pupils in the fourth, fifth, sixth, seventh, and eighth grades.

Each course will consist of thirty class exercises, or their equivalent. Credit is given for the satisfactory completion of such courses as are accepted by the several Boards and Committees of instruction for the degrees of Master of Arts, Bachelor of Arts, Bachelor of Engineering, and Bachelor of Science. One of the two years of resident study required for the degree of Master of Arts may be absolved by attendance and study during three summer sessions. The maximum credit allowed in one summer towards a baccalaureate degree is eight points.

During the summer of 1918 the enrolment included 326 university students and 181 pupils in the demonstration schools.

II. FACULTY OF MEDICINE

Requirements for Admission

As candidates for the degree of Doctor of Medicine the University receives:

1. Those who have satisfactorily completed the course preliminary to medicine, leading to the degree of Bachelor of Arts in this University.

II. Graduates of approved colleges or scientific schools who can furnish evidence: (*a*) That they have an acquaintance with Latin and a reading knowledge of French and German; (*b*) That they have such knowledge of biology, chemistry, and physics, as may be obtained from the minimal courses described below.*

III. Those who give evidence by examination that they possess the general education implied by a degree in arts or in science from an approved college or scientific school, and, in addition, the knowledge of Latin, French, German, physics, chemistry, and biology above indicated. [Thus far no students have been accepted under this special provision.]

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* Biology.—In addition to three hours of class work for one year, the instruction must include at least 180 hours of laboratory work upon the structure, function, and life-histories of selected types of animal and plant life. Courses in botany or zoology will be accepted provided the laboratory work has been adequate. It is desirable that the course should include laboratory instruction in embryology.

Chemistry.—*Inorganic:* Three hours of class work per week for one year and 150 hours of laboratory work. *Organic:* Thirty lectures and 90 hours of laboratory work.

Physics.—A collegiate course consisting of four hours a week of class-room work and at least three hours a week of *quantitative* work in the laboratory. Special attention should be given to theoretical mechanics and to mechanical and electrical experiments.

Latin.—The candidate should have studied Latin grammar and should possess at least such knowledge of the language as may be acquired by reading four books of Cæsar or their equivalent.

Application for Admission

Application for admission must be made to the Dean prior to July 1. A printed form will be furnished, one page of which is to be filled out by the applicant and the other by an officer of the institution at which the collegiate degree was obtained. The former gives information concerning the general preliminary education, and the latter authoritative data concerning the instruction received in the pre-medical sciences and the modern languages.

As the size of each class is limited, it is attempted, in case a greater number apply, to choose ninety of the most promising applicants. The choice is made by taking into consideration the character of the college from which the applicant graduated, his standing in the pre-medical sciences and the languages, and the estimate made by one of his science teachers, in a personal letter to the Dean, as to his or her fitness to undertake the study of medicine.

Applications may be filed at any time, but, except in unusual circumstances, they will not be considered formally before July first. Notification of acceptance will be sent not later than July fifteenth.

Under no conditions will applicants be accepted who are deficient in the underlying sciences, but in exceptional instances those having only a deficiency in French or in German may be admitted conditionally, on the understanding that the condition must be absolved before the beginning of the second year.

All students after acceptance by us will be required to obtain from the Department of Education of the State of Maryland a certificate indicating that they have satisfied the requirements of law for admission to the study of medicine in this state.

Admission to Advanced Standing

Students from acceptable medical schools may be admitted to the second-, third-, or fourth-year class if vacancies occur. Such applicants must furnish evidence (1) that they are eligible to the first-year class without conditions of any kind; (2) that medical courses equivalent in kind and amount to those given in this school in the year or years preceding that to which admission is desired, have been satisfactorily completed; and (3) they must be prepared to pass examinations at the beginning of the session in October in all subjects already pursued by the class to which admission is sought. The applicant must have studied as a matriculated medical student for a period of time at least equal to that already spent by the class which he seeks to enter.

As graduation from an approved college or scientific school is essential for admission to this school, applicants from universities conferring a degree upon the completion of a combined course, consisting of two years of collegiate and two years of medical work, are not eligible for admission to our third-year class.

Instruction for Graduates in Medicine

Beginning the first of June each year, six weeks' courses, especially adapted to meet the needs of practitioners of medicine, are given in medicine, surgery, and various specialties.

During the school year, at the discretion of the heads of departments, a limited number of graduate students may be admitted to work in the several departments, in so far as they do not occupy the places or interfere with the routine work of the undergraduate students.

In every instance the arrangements for such instruction and facilities must be made directly with the head of the department concerned, but work cannot be commenced until after registration at the Dean's office.

Persons who have already received the degree of Doctor of Medicine elsewhere will not be admitted as candidates for that degree from this University. Should further instruction be desired, they are advised to enter as graduate students.

SPECIAL WORKERS.—Special workers, not candidates for a degree, may be received at the discretion of the Faculty.

REQUIREMENTS FOR GRADUATION

The degree of Doctor of Medicine is conferred upon those who, after fulfilling all the requirements for admission, have completed satisfactorily a four-year course of study.

Students who have been admitted to advanced standing, as well as those of our own students who have been granted permission to pursue a part of their studies elsewhere, must spend at least the final year in the Medical School of this University.

Degrees are publicly conferred at the University Commencement on the second Tuesday of June, or on Commemoration Day, February the twenty-second.

EXAMINATIONS

At the end of the fifth trimester, the records of all students in the second-year class are reviewed by the Committee on Instruction and Examinations for the first two years. Students who are reported as having failed in any two of the following subjects: anatomy (including histology), physiology, physiological chemistry, pharmacology, pathology (including bacteriology), will be advised to withdraw from the school. Those who fail in one subject will be allowed to take a second examination not later than the following October.

No student will be permitted to enter upon the work of the fourth year until he has absolved the required third-year work in gynecology, physical diagnosis, clinical microscopy and neurology.

Final examinations for graduation will be held in medi-

cine, surgery, obstetrics, and the major electives. The examination in obstetrics may be absolved at the end of the third or during the fourth year.

Students not appearing for examination on the specified dates, or coming up for re-examination, will be required to pay a fee of $5.00 for each examination.

The estimation of the standing of each student is based upon the general character of his work, as well as upon the results of examinations.

General Plan of Instruction

Each year is divided into trimesters, the first extending from October to the Christmas recess, the second from January to March 15, and the third from March 15 to the end of the academic year.

The first two years of the course are devoted mainly to the fundamental medical sciences, the larger part of the time being spent in practical work in the laboratories. In the last two years the various clinical branches are studied in the wards of the Hospital, in the dispensary, and in the clinical laboratories.

The principal studies of the first year are anatomy, histology, neurology, bacteriology, physiology, and physiological chemistry. The study of anatomy and of physiology is continued in the second year, together with general pathology, pathological anatomy and histology, pharmacology, and toxicology. During the last trimester of the second year instruction is begun in physical diagnosis and in certain surgical methods, as an introduction to the clinical work of the succeeding years.

The major portion of the work of the first two years is obligatory for all students, but the time is so aranged that certain elective courses may be selected; thereby making it possible either to give more time to the obligatory courses, or to do special work along related lines.

In these two years thirty units of work are required—the unit being a course or group of courses of instruction equiva-

lent to five hours a week for one instructor. Consequently it is necessary for the students to take five units of obligatory and elective work during each trimester, in order to complete in two years the requirements for entrance upon the clinical studies. The system, however, permits him to spend an additional trimester or longer in the preparatory work, should it prove necessary or desirable.

As the third and four years are devoted to practical medicine, they can not be taken up until the student has obtained credit for the prescribed minimum of work in the underlying sciences.

The work of the third year is largely obligatory. During this year the student attends the clinics and dispensary exercises in medicine and surgery, and completes the required work in obstetrics, gynecology, and nervous diseases.

For the morning work the class is divided into four groups. From 9 to 10 a. m. each group receives instruction in obstetrics, gynecology or surgery, and from 10 o'clock to noon the time is devoted to practical work in the medical, surgical, and nervous departments of the dispensary. From 12 noon to 1 p. m. the entire class attends the large amphitheatre clinics in medicine or surgery. The afternoons are devoted mainly to laboratory work in clinical microscopy and surgical pathology. Instruction is also given in practical therapeutics and pharmacy, thus completing the pharmacological work of the previous year. Moreover, short propaedeutical courses are given to familiarize the student with the use of the ophthalmoscope and laryngoscope. On certain afternoons there are also offered a number of short elective courses of a practical character, and each student is required to select from them a sufficient amount of work to give him a credit of one and a half units.

The work of the fourth year is partly elective. For this purpose the class is divided into three groups, each working in rotation for one trimester in medicine, surgery, and certain elective subjects.

Each student must complete eighteen units of work during

the year—the unit being a course or group of courses occupying six hours a week for one trimester. Twelve units are obligatory, and include six units in medicine (including pediatrics), three units in surgery, one unit in ophthalmology, one unit which may be selected from laryngology, dermatology, genito-urinary surgery, orthopedics or neurology; while another unit is based upon attendance on a weekly amphitheatre clinic in medicine, and upon a group of lectures on medical zoölogy, psychiatry, hygiene, medical jurisprudence, and medical ethics.

The obligatory work in medicine, which includes a part of the required work in pediatrics, requires at least six hours of work a day for one trimester. The members of this group act as clinical clerks in the medical wards of the hospital, a certain number of beds being assigned to each student. They take the histories of the patients, and make the necessary examinations and notes under the guidance and direction of the resident physician. They accompany the physician-in-chief or some member of the senior staff in the daily ward-rounds, and receive special bedside and laboratory instruction.

In the surgical trimester, the student gives three hours a day to the attendance upon ward-rounds, to operations, and to work in the surgical laboratories. The members of this group take the histories of patients and act as surgical dressers in the wards. They make the morning visits with the surgeon-in-chief or the resident surgeon, and have daily opportunities to become familiar with the diagnosis, management, and progress of surgical cases. They are given an opportunity to take an elective course in operative surgery upon animals.

The elective work is arranged in major, minor, and fractional courses. The former occupy 3 or 2½ hours a day throughout one trimester, according as the classes are in the morning or afternoon, and count as 3 or 2½ units respectively. In the minor courses, which count as one unit, one hour a day, or two hours every alternate day, throughout one trimester, are devoted to the subject; while several fractional courses may be combined to make one unit. Students choosing such

courses must register at the Dean's office and will be expected to perform the work satisfactorily and to submit to an examination at its close. In fractional courses, which count as less than one-half of a unit, examinations will not be held, and regular attendance, properly certified by the instructor, will entitle the student to the allotted credit.

After having once been chosen, elective courses must be followed to the end of the trimester. The courses so selected may continue the practical work in medicine, surgery, obstetrics, gynecology, etc., or may bear upon the various specialties, or may be taken in the laboratories of the underlying medical sciences.

Accordingly, the time of each fourth-year student is apportioned as follows: trimester A, practical work in medicine during the entire day; trimester B, practical work in surgery during the morning, and in the afternoons short courses in ophthalmology, and in one of the special branches of medicine; trimester C, six units of elective work. In other words, each student after completing certain minimal requirements, chiefly in medicine and surgery, may extend his knowledge by taking a number of short clinical courses in different departments, as in most medical schools, or he may concentrate his attention upon the work of a few departments.

Scholarships

Hopkins Scholarships

Six Hopkins Scholarships are annually open to students from Maryland, North Carolina, and Virginia. These scholarships grant free tuition for one year. Three are given to fourth-year students, two to third-year students, and one to a second-year student. Applications should be addressed to the Dean of the Medical Faculty between April 1 and 15, in accordance with a prescribed form.

Detailed statements as to the courses of instruction and other information are given in the annual Catalogue and Announcement, which will be sent upon application to the Registrar of the Medical School.

III. FACULTY OF HYGIENE AND PUBLIC HEALTH

In June, 1916, the Rockefeller Foundation of New York notified the President of the Johns Hopkins University that the Foundation was prepared "to co-operate with the University in the establishment of a School of Hygiene and Pub lic Health for the advancement of knowledge and the training of investigators, teachers, officials and other workers in these fields."

This offer was accepted by the University, and on June 12, 1916, the President of the University made the formal announcement that the Board of Trustees had authorized the establishment of a School of Hygiene and Public Health as part of the University. Dr. William H. Welch was appointed Director and Dr. William H. Howell was named to assist in the work of organization.

The main objects of the School are to establish courses for the training of qualified persons for public health work, to promote investigative work in hygiene and preventive medicine and provide opportunities for the training of investigators in these subjects, and to develop adequate means for the dissemination of sound hygienic knowledge. Men and women are admitted on the same terms.

Courses and Degrees

I. Course leading to the degree of Doctor of Public Health:

The purpose of this course is to furnish instruction in public health knowledge and methods to those who have a liberal education and a fundamental training in medicine. The course will consist of specified work throughout two years together with a summer spent in field work in some organized public health service. In the first year the specified work will comprise courses in the following subjects:

advanced bacteriology and immunology; the chemical and bacteriological analysis of foods, water and sewage; statistical methods; sanitary and administrative law; nutritional and environmental hygiene; the history of hygiene. In the second year there will be courses in protozoology and medical zoology, epidemiology, occupational diseases, infectious diseases, sanitation and public health organization, sanitary engineering, and social and mental hygiene. It is understood that these requirements may be modified to suit the needs or aptitudes of special students. An essay based upon individual study of some problem or subject in hygiene is to be submitted before receiving the degree. Graduates in this course should be prepared to serve as public health officials in those important positions in which the health of large communities is involved and in which relations must be maintained both with the medical profession and the general public. The following groups of students will be accepted as candidates for this degree:

a. Graduates of approved medical schools who have had a liberal education as evidenced by a degree in arts or science, or its equivalent. These candidates will be required to pursue a two-years' course together with one summer of practical work in an organized public health service.

b. Students who have completed satisfactorily three years of the course in an approved medical school and who have had a liberal education as evidenced by a degree in arts or science, or its equivalent. It is hoped that in the case of these students arrangements can be made for a combined course in medicine and in public health of such a character that the student may receive his degree in medicine on the completion of four years' work, and his degree in public health after an additional or fifth year of work in the School of Hygiene and Public Health, together with a summer spent in practical field work.

A combined course of this character has been arranged for students in the Johns Hopkins Medical School. In their fourth year these students may fill all of their elective hours with subjects taken from the curriculum of the School of Hygiene and Public Health.

II. Courses leading to the degree of Doctor of Science in Hygiene:

The underlying object in the arrangement of these courses is to train specialists in the various departments of public health work, and to afford opportunity for those not graduated in medicine to undertake public health work. The field is large and varied. In addition to general administrative officials and those immediately occupied with the protection of the community from epidemics and insanitary conditions, it is obvious that specially trained individuals are needed in such matters as school hygiene, occupational hygiene, statistical investigations, nutritional problems, etc., both for the purpose of adding to knowledge and for giving special services.

For work of this character previous training in the physical and biological sciences is more essential than acquaintance with clinical methods, and it is proposed, therefore, in planning these courses, to base them upon a liberal education, and an adequate training in physics, chemistry, biology, and the medical sciences. After matriculation each candidate will be expected to absolve certain courses of a basic character, but for the most part his time will be devoted to advanced work. This latter part of the work must include a special investigation of some problem the results of which are to be presented in the form of a dissertation. It may be assumed that after obtaining the bachelor's degree at least three years of work will be necessary to meet all the requirements for this degree.

To be accepted as a candidate for this degree the following requirements must be fulfilled:

a. A degree in arts or science or its equivalent, as evidence of a liberal education.

b. Certificates of the satisfactory completion of adequate courses in chemistry, physics, and biology.

c. Certificates of the satisfactory completion of adequate courses in anatomy, physiology, and pathology.

d. In exceptional cases, on the recommendation of the head of a department, a candidate may be accepted who offers in place of (c) satisfactory evidence of special training of an advanced character in subjects fundamental to his main field of work.

After acceptance as a candidate the student will be assigned for advice and guidance to the head of the department in which he will specialize. The regulations governing the presentation and publication of dissertations, and the oral and written examinations of candidates, are published in the catalogue of the School of Hygiene and Public Health, which will be sent on application.

III. Course leading to the degree of Bachelor of Science in Hygiene:

It is evident that if public health work in this country develops along the lines followed at present there will soon be established in every community an organized service, including laboratory facilities, for the control of the health affairs of that community. For such services trained workers should be provided who can undertake the necessary work connected with the chemical and bacteriological examination of water, sewage, foods, excretions, blood; the preparation of bacteriological and serological material and sanitary inspections. Courses have been established for the training of such workers leading to the degree of Bachelor of Science in Hygiene. These courses require two years of combined work in the Medical School and the School of Hygiene and Public Health and are based upon a liberal education and an adequate knowledge of physics, chemistry, and biology such as can be obtained in two years of a college course. The first year's work consists of courses in physiology, bacteriology, anatomy

and histology and the chemical analysis of foods, water and sewage. The second year's work consists of courses in advanced bacteriology, immunology, medical zoology, statistics, nutritional and personal hygiene, and sanitary engineering. The requirements for matriculation in these courses are as follows:

a. Certificate of the completion of at least two years of work in an approved college.

b. Certificates of adequate courses in biology, physics, and chemistry, including organic chemistry.

By an adequate course is meant in physics one year of college work covering approximately 100 hours of laboratory and 100 hours of class work; in biology one year of college work covering approximately 150 hours of laboratory and 100 hours of class work; in chemistry one to two years of college work covering approximately 250 hours of laboratory and 120 hours of class work.

IV. Courses leading to a Certificate in Public Health:

A certificate in public health may be awarded to qualified persons after one year of residence and the satisfactory completion of lectures and laboratory courses equivalent in amount to the work of a full academic year.

Special Students

An opportunity to use the facilities of the School will be granted to the following groups of special students not registered as candidates for a degree:

1. Public health officers who may wish to take one or more lectures or laboratory courses, or engage in the study of some special problem.
2. Other qualified persons who may wish to attend special courses or undertake research work and whose qualifications receive the formal approval of the faculty of the School.

Courses for Social Workers, Nurses and Teachers

It is the intention of the School to organize a series of courses which will be designed especially for the instruction of health nurses, social workers and teachers. These courses will be of a practical character and those who register for them and pass the examinations will be granted suitable certificates. The relations of public and personal hygiene and of individual sanitation to the welfare of society will receive especial consideration. The details concerning these courses will be announced later.

Public Lectures

In connection with the class courses a series of lectures open to the public is arranged annually. The object of these lectures is to bring before interested persons the general facts and points of view of modern hygiene, with the hope that in this way the School may serve as a center for the distribution of useful knowledge in all matters pertaining to sanitation and preventive medicine.

Scholarships

A certain number of scholarships carrying free tuition are awarded annually by the Trustees of the University upon the recommendation of the faculty. These scholarships are awarded for one year, but may be renewed for a second year at the discretion of the faculty. Application may be made to the Director of the School.

Fellowships

Six research fellowships carrying each a stipend of $1,000 and exemption from all charges for tuition are awarded annually by the Trustees of the University upon the recommendation of the faculty. The conditions upon which these fellowships will be awarded are as follows:

1. The applicant must have received his doctor's degree in medicine, science, philosophy or public health, or furnish evidence of experience and meritorious service in scientific work.

2. The holder of a fellowship must give his time primarily to investigative work, approved by some member of the staff of the School, and must be in residence during the academic year, unless permission is granted to him by the faculty to carry on his work elsewhere.

3. The application should be made prior to March 1st, in writing, addressed to the Director of the School of Hygiene and Public Health.

Tuition

The charge for tuition in the courses leading to a degree is $250 per annum, payable at the office of the Director, in three instalments, one at the beginning of each trimester. For students taking special courses the charge for each course will be arranged on application.

For further information address the Director of the School of Hygiene and Public Health, Johns Hopkins University, 310-312 W. Monument Street, Baltimore, Md.

IV. FACULTY OF ENGINEERING

The Foundation

The establishment of the Department of Engineering of the Johns Hopkins University was made possible by the passage of an Act of the General Assembly of the State of Maryland in its session of 1912. The preamble of the Act quotes the Declaration of Rights of the State as follows: "The Legislature ought to encourage the diffusion of knowledge and virtue, the extension of a judicious system of general education, the promotion of literature, the arts, sciences, agriculture, commerce and manufactures, and the general amelioration of the condition of the people." The Act further states that its purpose is the extension to the people of this State of opportunities, facilities, and advantages for education in applied science and advanced technology not hitherto available to them.

The Act provides a liberal appropriation for the erection of buildings and the purchase of equipment, and a continuing annual appropriation available to the University each year. In conformity with the purpose and provisions of the Act the University offers each year a number of scholarships granting free tuition to residents of the State of Maryland. (See page 350).

Instruction was begun in the branches of Civil, Electrical, and Mechanical Engineering in the first of the new laboratories at Homewood, in October, 1914.

General Plan of Instruction

The Department of Engineering offers graduate and undergraduate courses in the branches of Civil, Electrical and Mechanical Engineering. An undergraduate course in Chemistry is also offered, which has been arranged with special reference to the needs of chemical industries. Detailed statements as to the various courses are found in the following pages.

The new laboratories at Homewood, designed after careful study, provide every accommodation and facility for professional instruction. Besides the complete provision which has been made for undergraduate instruction, equipment has also been chosen with special reference to advanced study and experimental research.

The University operates its own steam and electric power plant, which furnishes heat and electric light and power to the various buildings of the University group at Homewood. The types of the equipment in the power house, their arrangement, and the method of distributing heat and power through tunnels to the various buildings, have been chosen with particular reference to their use for the purposes of instruction.

A number of photographs and plans of the buildings of the engineering group are shown in the announcement of the Department of Engineering. A description of the buildings, with illustrations, has been published in the *Johns Hopkins University Circular* of December, 1916.

Graduate Courses

The graduate courses offer advanced professional instruction. The plan of conducting the work of these courses is in general similar to that which governs the graduate work of other departments of the University.

The progress of the several branches of Engineering is followed in the current literature. Fitness for independent study and investigation is developed by seminary methods and in the laboratory. Special opportunities are offered for research and for experiment in the solution of engineering problems. Effort is made to maintain intimate contact with public corporations and municipal and State departments, and with others engaged in engineering enterprise, with the purpose of studying their problems and so aiding scientific progress in the methods of engineering.

The encouragement of individual initiative and independent study in the graduate courses constitutes especially valu-

able training for those who desire to become teachers of engineering subjects.

Detailed statements concerning the graduate instruction which is offered in the several branches of Engineering are given below. Correspondence is especially invited as to the facilities which may be offered for the investigation of special problems.

In addition to the professional courses enumerated below, attention is also drawn to a number of courses in allied subjects which are readily available. These courses present the most recent advances in the several sciences from the point of view of theory in its bearing on industrial applications and public needs. Among the more important are those in applied chemistry, economic geology, and the courses in the new School of Hygiene and Public Health. Further details as to these courses are given in the *University Register* which will be sent on application. Through the close relationship between these courses and the graduate work in Engineering, exceptional opportunities are offered for specialized professional investigation.

The requirements for degrees, on completion of graduate study, are given on page 349.

Undergraduate Courses

The undergraduate courses in Engineering aim to give the student a thorough training in the principles of the several branches of Engineering and an introduction to the methods of practice. Emphasis is laid upon fundamental and cultural studies in the first two years. In the later years these studies are combined with professional subjects to an extent which should give the graduate a training and equipment enabling him to take intelligent and increasingly responsible part in engineering undertakings. Particular effort is made to impart a thorough grounding in the general principles of the several branches of Engineering, the greater portion of the time being devoted to this purpose. The further study of special applications is assigned to the graduate years.

The course of undergraduate instruction continues through four years. The program of studies for the first year is the same in all three branches (Civil, Electrical, and Mechanical Engineering). Engineering studies begin with one course in the second year, increasing in number and extent in the third and fourth years. Free-hand drawing is taught in the first year and mechanical and engineering drawing continues through all four years. The fundamental and general educational studies are conducted with the aid of the faculty of the College of Arts and Sciences.

The student may choose at the beginning of the third year the branch of Engineering which he wishes to follow. The fourth year is devoted mainly to professional studies of the principal subject. One of the earlier courses in each subject is arranged with special reference to the needs of students in other branches of Engineering. The curriculum provides places for several elective studies.

In addition to recitations and personal conferences, practical work in the laboratory, demonstrations, and the study of existing engineering installations are prominent features of the methods of instruction.

Students are urged to secure employment in engineering or other industrial organizations during the summer months. Permanent arrangements with a number of such organizations facilitate this feature. At least three months of such work is a prerequisite for graduation.

An unusual feature of the undergraduate instruction is a course of lectures on "Engineering Practice," established through the generosity of Mr. J. E. Aldred. These lectures, nine in number, are given by practising and operating engineers. They are particularly designed to bring before the student the essential features of the planning, construction, and operation of modern engineering projects. A further description of these lectures will be found on page 340.

Lists of courses offered for the year 1919-20 in the several professional subjects, to both graduates and undergraduate students, are given in the following pages.

I—CIVIL ENGINEERING

The course in Civil Engineering is planned to give four years of undergraduate college work along rather general lines, to fit a student for entrance into the civil engineering profession. Some work in the drafting-room is required in each of the four years, but, with the exception of the first year, this is all done in connection with other studies of a practical or theoretical nature. In the first two years the greater part of the work lies in the fields of Mathematics, English, and the pure sciences; but in the last two years, and especially in the fourth year, greater emphasis is put on strictly professional work.

Opportunity is offered to follow the courses in Military Science throughout the whole four years. This work is carried on under the Professor of Military Science and Tactics, detailed here under the provisions of the Reserve Officers' Training Corps of the Army.

Graduate courses will be provided for students who desire to work towards the Master's or the Doctor's degree, in such manner as to fit the needs and desires of properly qualified students who may apply for them.

I—CIVIL ENGINEERING

First Year

1st Term	Class	Lab. or Conf.	*2nd Term*	Class	Lab. or Conf.
Chemistry 1	3	6	Chemistry 1	3	6
Mathematics 1	3	2	Mathematics 1	3	2
English Composition 1	3		English Composition 1	3	
Engineering Drawing (102)		6	Descriptive Geometry (104)		6
General Engineering	1		General Engineering	1	
Military Science 1	2		Military Science 1	2	
or			*or*		
Modern Language and Physical Training	4		Modern Language and Physical Training	4	

Second Year

1st Term			*2nd Term*		
Physics 1	4	6	Physics 1	4	6
Mathematics 2	3	2	Mathematics 2	3	2
Applied Mechanics (ME)	3		Strength of Materials (111)	3	
Surveying (112)	1	6	Advanced Descriptive Geometry and Stereotomy (114)	1	6
Military Science 2	2		Military Science 2	2	
or			*or*		
English Composition 2 (*or* Elective) and Physical Training	2		English Composition 2 (*or* Elective) and Physical Training	2	

Outside work in Summer

Third Year

1st Term			*2nd Term*		
Materials of Engineering	3	3	Hydraulics (121)	3	3
Direct Current Machinery, *or* Heat Engines (305)	3	3	Railroad Surveying and Geodesy (123)	3	6
Geology	4	3	Geology	4	3
Theory of Structures (122)	1	3	Theory of Structures (124)	1	3
Military Science 3, *or* History, *or* Political Economy, *or* Spanish, *or* Philosophy	2 *or* 3		Military Science 3, *or* History, *or* Political Economy, *or* Spanish, *or* Philosophy	2 *or* 3	

Outside work in Summer

Fourth Year

1st Term			*2nd Term*		
Structural Engineering (131)	3	6	Structural Engineering (133)	3	6
Sanitary Engineering (135)	3	6	Sanitary Engineering (137)	3	6
Transportation (132)	3		Political Science	3	
Military Science 4 *or* Elective	2 *or* 3		Military Science 4 *or* Elective	2 *or* 3	

Students in the School of Hygiene and Public Health will take the first 3 months only of Sanitary Engineering (135).

I—CIVIL ENGINEERING

UNDERGRADUATE COURSES

102. Engineering Drawing.

Two drafting-room periods of three hours each weekly, first half-year. Mr. WHITEMAN and Mr. BRYAN.

Practice in the elements of mechanical drawing and freehand sketching. The work includes making finished plates in pencil and ink, as well as tracing. The text book is French's "Engineering Drawing."

104. Elements of Descriptive Geometry.

Two drafting-room periods of three hours each weekly, second half-year. Mr. BRYAN and Mr. WHITEMAN.

Problems relating to points, lines and planes, simple intersections and developments, projections, etc. Text book, Smith's "Practical Descriptive Geometry." This course is a continuation of 102, which is required as preparation.

111. Elements of Strength of Materials.

Three hours weekly, second half-year. Professors TILDEN and BRINGHURST.

A study of the elementary theory of the mechanics of materials, including stresses and strains, short and long columns, rivet design and practice, torsion, bending, bending moments and shears, safe loadings, the elements of graphic statics and the fundamental theory of structural design. Text book, Church's "Mechanics of Engineering."

112. Elements of Surveying.

One hour of lecture or recitation and two field or drafting-room periods of three hours each weekly, first half-year. Professor BRINGHURST and Mr. BRYAN.

Recitations and field work. The use and adjustment of instruments, simple problems in the field, taking notes, etc. In the drafting room the notes will be plotted, with practice in the methods of completing simple surveys. Text book, Tracy's "Plane Surveying."

114. Advanced Descriptive Geometry and Stereotomy.

One hour of lecture or recitation and two drafting-room periods of three hours each weekly, second half-year. Professor TILDEN and Mr. BRYAN.

The application of descriptive geometry to various structural problems. Nomenclature of the arch, truss bridges and other structures. Reference book, Smith's "Practical Descriptive Geometry." The problems assigned are largely taken from actual structures such as piers, arches, pin packing of trusses, etc., measured in the field.

121. Hydraulics.

Three lecture or recitation hours and one laboratory period of three hours weekly, second half-year. Professor GREGORY.

A study of the fundamental principles of hydrostatics and hydrodynamics. Text book, Merriman's "Hydraulics."

122. Theory of Structures.

One lecture or recitation hour and one three-hour period in the drafting room or field weekly, first half-year. Professors TILDEN and BRINGHURST and Mr. BRYAN.

Introduction to the theory and practice of structural design. Field measurements of typical engineering structures, and preparation of working drawings in the drafting-room. Must be preceded by 111 and 114.

123. Advanced Surveying.

Three lecture or recitation hours and two periods of three hours each in field or drafting-room weekly, second half-year. Professor BRINGHURST.

Special problems in running traverses, determining topographical data, cross-sectioning and setting slope-stakes, running simple railroad curves, etc., etc. Tracy's "Plane Surveying" is used as a reference book.

124. Theory of Structures.

One lecture or recitation hour and one three-hour period in the drafting-room or field weekly, first half-year. Professors TILDEN and BRINGHURST and Mr. BRYAN.

Continuation of 122.

131. Structural Engineering.

Three lecture or recitation hours and two periods of three hours each in the drafting-room weekly, first half-year. Professor BRINGHURST.

Problems in the design of structures in steel, wood and re-enforced concrete; including the preparation of stress sheets, engineering details and working shop drawings. Must be preceded by 124.

132. Transportation.

Three hours weekly, first half-year. Professor TILDEN.

A study of railways, canals, and highways as systems of communication, with especial regard to their physical structure and characteristics, effect of topography on location, etc.

133. Structural Engineering.

Three lecture or recitation hours and two periods of three hours each in field or drafting-room weekly, second half-year. Professor BRINGHURST.

Continuation of 131.

135. Sanitary Engineering.

Three lecture or recitation hours and two drafting-room or field periods of three hours each weekly, first half-year. Professor GREGORY.

Essential principles of the design and construction of sewerage and water-supply works.

Students in the School of Hygiene and Public Health will take the first three months only (October, November and December), of this course.

137. Sanitary Engineering.

Three lecture or recitation hours and two drafting-room or field periods of three hours each weekly, second half-year. Professor GREGORY.

Continuation of 135.

II—ELECTRICAL ENGINEERING

The course in Electrical Engineering has been arranged with the aim to give a sound knowledge of underlying principles in the subjects of Mathematics, Physics, and Chemistry, a constant contact with carefully chosen general educational topics, with special insistence on written and spoken English, and as wide a survey of the principles and practice of electrical engineering as may be safely attempted in a four-years' undergraduate course.

The strictly electrical courses begin in the third year. In one course of this year the subject is approached through the problems of practice, and the underlying principles are derived as needed. More rigid courses in the mathematical theories of electricity, magnetism, and alternating currents are placed in the fourth year.

The undergraduate laboratories have been liberally designed and equipped. Constant attention is given to the content and organization of the laboratory courses. Ample resources are available for supplementing the equipment with new and important apparatus as indicated by current practice.

Laboratory work is an essential feature of the character of the instruction and is conducted in connection with all technical courses.

In the graduate courses the student completes his formal study of general electrical engineering and may by investigation and experimental research, under guidance, extend his knowledge in any chosen direction. The library, the graduate laboratories, and the shops have been equipped especially for independent research, and liberal provision is made for the support and encouragement of work of this character.

II—ELECTRICAL ENGINEERING

First Year

1st Term	Class	Lab. or Conf.	*2nd Term*	Class	Lab. or Conf.
Chemistry 1	3	6	Chemistry 1	3	6
Mathematics 1	3	2	Mathematics 1	3	2
English Composition 1	3		English Composition 1	3	
Engineering Drawing (102)		6	Descriptive Geometry (104)		6
General Engineering	1		General Engineering	1	
Military Science 1	2		Military Science 1	2	
or			*or*		
Modern Language and Physical Training	4		Modern Language and Physical Training	4	

Second Year

1st Term			*2nd Term*		
Mathematics 2	3	2	Mathematics 2	3	2
Physics 1	4	6	Physics 1	4	6
Applied Mechanics (301)	3		Strength of Materials (111)	3	
Surveying (112)	1	6	Kinematics (303)	1	6
Military Science 2	2		Military Science 2	2	
or			*or*		
English Composition 2 (*or* Elective) and Physical Training	2		English Composition 2 (*or* Elective) and Physical Training	2	

Industrial Work in the Summer

Third Year

1st Term			*2nd Term*		
Elements of Electrical Engineering (201)	3	3	Elements of Electrical Engineering (203)	3	3
Heat Engines (305)	3	3	Heat Engines (305)	3	3
Materials of Engineering (205)	3	3	Hydraulics (121)	3	3
Political Economy 1	3		Political Economy 1	3	
Electrical Measurements (207)	2	6	Direct Current Machine Design (209)	2	6

Industrial Work in the Summer

Fourth Year

1st Term			*2nd Term*		
Alternating Current Theory (211)	3	9	Alternating Current Machinery (213)	3	6
Steam-Electric Power Plants (309)	3		Electric Power Plant Machinery and Transmission (221)	3	3
Electric Railways and Electric Illumination (215)	3	3	Radio Transmission (219)	3	6
Motor Applications (217)	2	3	Industrial Organization and Contracts (317)	3	
Advanced Electricity and Magnetism (223)	3		Elective	2	

II—ELECTRICAL ENGINEERING

Undergraduate Courses

201. Elements of Electrical Engineering.

Three hours weekly, first half-year. Professor Whitehead and Mr. Pullen.

Principles and practice of generation, transmission, distribution and utilization of electric energy by means of continuous currents, with special reference to the performance characteristics of generators and motors. The subjects are approached from the standpoint of the concrete examples, the principles being derived as needed. The course is designed for beginners and for students from other branches of engineering.

202. Laboratory Tests of Direct Current Apparatus and Machinery.

Six hours weekly, first half-year. Mr. Pullen.

Parallel to 201.

203. Elements of Electrical Engineering.

Three hours weekly, second half-year. Professor Whitehead and Mr. Pullen.

Elementary principles of alternating currents, and the performance of the commoner types of alternating current machinery.

A continuation of 201.

204. Laboratory Tests of Alternating Current Apparatus and Machinery.

Six hours weekly, second half-year. Mr. Pullen and Mr. Lee.

Parallel to 203.

205. Materials of Engineering.

Three hours weekly, first half-year. Professors Arthur and Christie.

The electric, magnetic, and insulating properties of the commoner

materials of engineering. The course is conducted in conjunction with the Department of Mechanical Engineering. (See course 315.)

207. Electrical Measurements.

Two hours weekly, first half-year. Professor ARTHUR.

Theory and practice of the more important methods of precision measurement, followed by a thorough study of modern indicating instruments for continuous current.

209. Design of Continuous Current Machines.

Two hours weekly, second half-year. Professor ARTHUR.

The application of underlying principles to the available materials and methods of construction. The influence of the various factors on cost and methods of manufacture are discussed.

211. Alternating Current Machinery.

Three hours weekly, first half-year. Mr. LEE.

Circuits containing resistance, inductance, and capacity in the steady state. Vector and symbolic methods. Cases occurring in practice. Alternating Magnetic Circuits. The alternating current transformer. The solution of problems is an important feature of the course.

213. Alternating Current Machinery.

Three hours weekly, second half-year. Mr. LEE.

Theory and testing of alternating current generators, motors, and rotary converters.

215. Electric Railways and Electric Illumination.

Three hours weekly, first half-year. Mr. PULLEN.

The principles of illumination, the storage battery and its applications, the electric railway.

217. Motor Applications.

Three hours weekly, second half-year. Professor ARTHUR.

The measurement of electric power and the adaptation of continuous and alternating current motors to particular types of service.

219. Radio Transmission.

Three hours weekly, first half-year. Professor ARTHUR.

High frequency measurements, the oscillation transformer, damped and undamped, sending and receiving, the audion and amplifying vacuum tubes, radio telephony.

221. Electric Power Plant Machinery and the Transmission of Power.

Two hours weekly, second half-year. Professor WHITEHEAD.

Principles and practice in the design of electric power plants and transmission lines. Specifications and contracts.

223. Theory of Electricity and Magnetism.

Two hours weekly, first half-year. Professor WHITEHEAD.

Introduction to the advanced mathematical theory of electricity and magnetism. The electric and magnetic fields, potential, dielectrics, electromagnetic theory. Ionic and electronic conduction.

GRADUATE COURSES

251. Seminary and Journal Meeting.

One hour weekly through the year. Professor WHITEHEAD.

Advanced students meet with the instructors once each week for the discussion of current publications and for the presentation of papers summarizing present knowledge of electricity in its various applications.

253. Electrical Transmission of Energy.

Three hours weekly through the year. Professor WHITEHEAD.

A course in the theory of electrical transmission and a number of allied topics. It alternates in successive years with a course in the theory of alternating current machinery (255).

257. Electrical Measurements.

Two hours weekly through the year. Professor ARTHUR.

An advanced course in the theory of modern methods of precision measurement.

258. Research Laboratory.

The laboratories offer exceptional facilities in the form of apparatus, libraries, and machine shops for experimental investigation in any direction in the field of applied electricity. This work is conducted under the general direction of Professor WHITEHEAD.

III—MECHANICAL ENGINEERING

The course in Mechanical Engineering aims to give the student a thorough training in the principles that underlie the practice of the profession. The first two years are devoted largely to the fundamental sciences, to mathematics, and to general educational courses. The technical work in the last two years is planned to give the student a thorough understanding of the general principles involved, rather than a specialized training in any one branch of mechanical engineering. The main courses deal with power engineering, machine design, and production methods. These are supplemented by courses in electrical engineering, materials of engineering and hydraulics, and also by general educational and other elective studies.

Much attention is given to laboratory work, in which the principles developed in the class room are applied. The laboratories and equipment are all new and the machinery is of the most modern type. The University Power Plant, which is adjacent to the Mechanical and Electrical Building, was designed with particular reference to availability for laboratory work. Students thus become familiar with boilers, stokers, engines, turbines, pumps, heaters, condensers, etc., in actual commercial use. The 75 horse-power Buckeyemobile unit in the power plant is particularly suitable for testing work. The gas engine laboratory is located in an addition to the power house, and besides gas and gasoline engines a Diesel engine has been installed. Fuel, gas, and oil laboratories and special research rooms are located in the Mechanical and Electrical Building. Machinery Hall contains several steam engines, complete refrigerating equipment, and an air compressor. Considerable space is available for the installation of additional equipment as this is needed.

Advanced courses are offered for graduate students who

III—MECHANICAL ENGINEERING

First Year

1st Term	Class	Lab. or Conf.	*2nd Term*	Class	Lab. or Conf.
Chemistry 1	3	6	Chemistry 1	3	6
Mathematics 1	3	2	Mathematics 1	3	2
English Composition 1	3		English Composition 1	3	
Engineering Drawing (102)		6	Descriptive Geometry (104)		6
General Engineering	1		General Engineering	1	
Military Science 1	2		Military Science 1	2	
or			*or*		
Modern Language and Physical Training	4		Modern Language and Physical Training	4	

Second Year

1st Term			*2nd Term*		
Mathematics 2	3	2	Mathematics 2	3	2
Physics 1	4	6	Physics 1	4	6
Applied Mechanics (301)	3		Strength of Materials (111)	3	
Surveying (112)	1	6	Applied Kinematics (303)	1	6
Military Science 2	2		Military Science 2	2	
or			*or*		
English Composition 2 (*or* Elective) and Physical Training	2		English Composition 2 (*or* Elective) and Physical Training	2	

Industrial Work in Summer

Third Year

1st Term			*2nd Term*		
Elements of Electrical Engineering (201)	3	3	Elements of Electrical Engineering (203)	3	3
Heat Engines (305) (306)	3	3	Heat Engines (305) (306)	3	3
Machine Design (307)	3	9	Hydraulics (121)	3	3
Political Economy	3		Machine Design (307)	1	3
			Political Economy	3	

Industrial Work in Summer

Fourth Year

1st Term			*2nd Term*		
Steam-Electric Power Plants (309)	3		Power Engineering (311)	3	
Motor Applications (217)	2		Industrial Organization (317)	3	
Materials of Engineering (315)	3	3	Mechanics of Machinery (319)	3	
Elective	5		Elective	4	
Laboratory (310)		12	Laboratory (310)		15
Seminary and Journal Meeting (313)	1		Seminary and Journal Meeting (313)	1	

may wish to extend their training beyond the work covered in the four-year course. Such students are expected to conduct original research in the laboratories. Certain of the advanced courses are open to fourth-year students who are qualified to take them.

The Gas By-Products Laboratory is probably the only complete plant of its kind in America and is available for research work for students desiring to follow gas engineering. It includes a 400-pound retort, hydraulic main, condensers, tax extractor, scrubbers, purifier, tar and ammonia tanks, and gas holder. Meters, gas analysis apparatus, and calorimeters are also available. Gas Engineering is planned jointly with the Department of Chemistry.

III—MECHANICAL ENGINEERING

Undergraduate Courses

301. Applied Mechanics.

Three hours weekly, first half-year. Mr. Smallwood and Mr. Coolidge.

This course deals with the following topics: Analysis of static forces; moments, couples, center of gravity. Stresses in frames, including graphic statics. Analysis of velocities and acceleration, both algebraically and by graphs. Determination of centrifugal force, impact, momentum, and inertia. The moment of inertia. Work, energy, and power. The laws of friction.

The whole subject is treated with special reference to engineering problems, since it forms the basis of several of the more advanced engineering courses.

303. Applied Kinematics.

One hour of class work and six hours of designing weekly, second half-year. Mr. Coolidge.

The lectures prepare for the designing work in the drafting room, which will cover an investigation of the theoretical kinematic principles involved and their practical application in the design of various commercial types of gears and cams; layout of belting for shaft and machine drives; and the application of the principle of instant centers and vector diagrams in the determination of relative velocities of important working members in various types of machines. In addition, the student will be required in the class room to solve problems involving kinematic principles in the various mechanisms which are used in general engineering practice.

305. Heat Engines.

Three hours weekly through the third year. Professor Thomas.

This course includes the study of thermodynamics and its application to the following heat engines: Steam boiler, the steam engine and turbine, air compressors, refrigerating machinery, internal combustion engines, and steam power plant auxiliaries. The theory of combustion and a study of fuels are also included. Types of valve gears, governors, and other auxiliary mechanism are discussed.

306. Mechanical Laboratory.

Three hours weekly through the third year. Mr. SMALLWOOD.

The calibration and use of instruments used in mechanical engineering practice. Valve setting of steam and gas engines. Steam and gas engine testing. Boiler and power plant trials. Air compressor testing. Analysis and heat value determinations of solid and gaseous fuels.

307. Machine Design

Three hours of lectures and nine hours of designing weekly, first half-year. One lecture and three hours of designing weekly, second half-year. Mr. COOLIDGE.

This course in the first half-year will include the complete design of one or more selected types of commercial machines from specifications furnished the student. The lecture work includes the investigation and solution of various elementary problems in general machine design, from both theoretical and practical viewpoints, in accordance with the best engineering practice.

The course in the second half-year will include the layout of a plant designed for manufacturing a marketable commodity in large quantities. The lectures will include an analysis of operations performed, selection of equipment, etc.

309. Steam-Electric Power Plants.

Three hours weekly, first half-year. Professor CHRISTIE.

The first term will be devoted to a study of the application of heat transfer and the combustion of fuels to the economic performance and the selection of such plant equipment as boilers, furnaces, chimneys, engines, turbines, condensers, pumps, and other auxiliaries. The design of plants to suit given load conditions is considered with reference to first cost and operating costs.

310. Mechanical Laboratory.

Six hours of laboratory work through the fourth year. Professor CHRISTIE.

This course familiarizes the student with the commercial operation of power plant equipment and with the methods of analyzing its performance by studying the results of experiments. All work is in

the nature of special problems to be solved experimentally with the power house and laboratory equipment.

311. Power Engineering.

Three hours weekly, second half-year. Professor CHRISTIE.

This course is a continuation of course 309 and deals with internal combustion engine plants, central heating systems, compressed air plants, and refrigerating equipment. Rate making, based on fixed charges, service expense, and operating costs, is also discussed.

313. Seminary and Journal Meeting.

One hour weekly through the year. Professor THOMAS.

Conducted by members of the faculty and participated in by graduate and fourth-year students. Attention is devoted principally to papers in current periodicals. Papers on mechanical developments are also presented for discussion.

315. Materials of Engineering.

Three hours of class work and three hours of laboratory weekly, first half-year. Professor CHRISTIE.

A study of the preparation and physical properties of the materials of engineering, including coal and coke, cast iron, wrought iron, Bessemer open hearth and electric steels, alloy steels, the physical structure of iron and steel, brasses, bronzes, and other non-ferrous alloys, woods, portland cement, and other non-metallic materials. Laboratory work consists of studies of tensile, compressive, and bending strengths, including stress and strain diagrams of various materials on the testing machines.

317. Industrial Organization.

Three hours weekly, second half-year. Professor CHRISTIE.

A study of the principles of industrial organization as applied to productive industries. Modern industrial tendencies, forms of ownership, types of organization, the functions of a conventional factory organization and its system for handling orders. Storekeeping methods. Planning, routing, and scheduling work. Shop records and costs; wage payment; betterment plans; safety-first organization; employment methods; burden and depreciation. Plant location and arrangement.

The second part of the course deals with engineering contracts and specifications and with some portions of commercial law.

319. Mechanics of Machinery.

Three hours weekly, second half-year. **Mr. SMALLWOOD.**

This course covers the following subjects: The design of slide valves; the determination of stresses in and forces on such rotating machine parts as flywheels, governors, turbine rotors; the critical speeds of turbine rotors and stresses in revolving discs. The determination of stresses in containing vessels such as boilers, receivers, cylinders, etc.

GRADUATE COURSES

351. Gas Manufacture and By-Product Recovery.

Three hours weekly through the year. **Professor THOMAS.**

An elective course dealing with the engineering features involved in the destructive distillation of coal and the recovery and utilization of all the products of the process. The course includes discussion of the mechanical equipment involved in the manufacture of coal gas, water gas, and coke-oven gas.

Laboratory work accompanies the course in the new gas by-products laboratory.

The department of Chemistry will collaborate in this course.

353. Steam Turbines.

Three hours weekly, second half-year. **Professor CHRISTIE.**

A study of the conversion of heat energy into velocity and kinetic energy and the application of the principles developed to the design of simple impulse, Rateau, Curtis, and Parsons types of turbines. The materials in use, the strength of rotating and stationary parts, and the proportioning of the turbines are discussed. Consideration is given to the commercial uses and performance of steam turbines and turbo-gears.

355. Internal Combustion Engines.

Two hours weekly, second half-year. **Mr. SMALLWOOD.**

Internal combustion engine fuels and the theory of their combustion are studied, together with types of engines. Calculation of cylinder sizes for a required capacity and design of the gas engine. This course is accompanied by eight periods of experimental work in the internal combustion engine laboratory.

357. Production Methods.

Three hours weekly, second half-year. Mr. COOLIDGE.

This course deals with a study of the machinery processes and organization needed to manufacture a commercial article on a production basis. It involves a study of the design of the article, planning of processes, and selection of manufacturing machinery. Visits will be made to plants near Baltimore to study the processes followed.

359. Research Laboratory.

The mechanical laboratories offer unusual opportunities to graduate students for original research along certain lines. Such work will be under the general direction of Professor THOMAS.

IV—CHEMISTRY

The undergraduate course in Chemistry offers a thorough training in chemical processes and practice. Courses in mathematics and physics in the first two years give a sound foundation for the successful study of the application of these processes. General cultural courses are also given in the earlier years, thus providing the general, or humanitarian, elements necessary for a sound education in a technical subject.

One course in chemistry is required in each of the first, second, and third years, while the fourth year is devoted entirely to this subject. Two courses in engineering are required in the third year. All students are advised to take the course in Elements of Electrical Engineering and another to be selected according to their needs.

The course differs from that offered in many technical schools in that the time usually spent in short periods of instruction in specific subjects, such as dyeing, bleaching, etc., is here devoted to a more thorough training in the principles involved, leaving the special applications to the time when they may be needed. During the fourth year the student is instructed in the uses of a library and becomes familiar with journals, reference books, and methods of finding all that is known of a particular substance or process. The course not only trains the student for a position in an industrial plant or in a research laboratory, but also gives excellent training for work leading to the Ph. D. degree or to the degree in medicine.

IV—CHEMISTRY

First Year

1st Term	Class	Lab. or Conf.	*2nd Term*	Class	Lab. or Conf.
Chemistry 1	3	6	Chemistry 1	3	6
English Composition 1	3		English Composition 1	3	
Mathematics 1	3	2	Mathematics 1	3	2
French *or* German *or* Spanish	4		French *or* German *or* Spanish	4	
Engineering Drawing		6	Descriptive Geometry		6
Physical Training *or* Military Science 1	2		Physical Training *or* Military Science 1	2	

Second Year

1st Term			*2nd Term*		
Chemistry 2	3	6	Chemistry 2	3	6
English	2		English	2	
Mathematics 2	3	2	Mathematics 2	3	2
Physics 1	4	6	Physics 1	4	6
Political Economy *or* History	3		Political Economy *or* History	3	
Physical Training *or* Military Science 2	2		Physical Training *or* Military Science 2	2	

Third Year

1st Term			*2nd Term*		
Chemistry 3	3	6	Chemistry 3	3	6
Elements of Electrical Engineering	3	3	Elements of Electrical Engineering	3	3
Applied Mechanics *or*	3		Strength of Materials *or*	3	
Heat Engines	3	3	Heat Engines	3	3
Elective	3		Elective	3	

Fourth Year

1st Term		*2nd Term*	
Chemistry 4 Chemistry 5 Chemistry 6 Chemistry 7	(Practically full time in the laboratory)	Chemistry 4 Chemistry 5 Chemistry 6 Chemistry 7	(Practically full time in the laboratory)

Chemistry 1: General Inorganic Chemistry.

Three lecture or recitation hours and six laboratory hours weekly through the year. Dr. BLANCK.

Elementary Inorganic Chemistry. In the laboratory the students prepare and study the common elements and compounds, and in the second half-year begin a course of systematic qualitative analysis.

Chemistry 2: Advanced Inorganic Chemistry; Qualitative and Quantitative Analysis.

Three lecture or recitation hours and six laboratory hours weekly through the year. Dr. MILLER.

The lectures of the first half-year are devoted to a study of chemical and physical chemical laws, and the recitations to qualitative analysis, special emphasis being placed upon the applications of the Law of Mass Action to the latter. During this period the laboratory work consists of a continuation of the qualitative analysis begun in the first year. The second half-year of the class and laboratory work is devoted to the theory and practice of quantitative analysis, both gravimetric and volumetric.

Chemistry 3: Systematic Organic Chemistry.

Three lecture or recitation hours and six laboratory hours weekly through the year. Professor GILPIN.

The preparation, properties, and detection of organic compounds.

Chemistry 4: General Chemistry.

Two lectures weekly through the year. Laboratory work in Quantitative Analysis for twenty weeks. Professor FRAZER.

Chemistry 5: Advanced Inorganic Chemistry.

Six weeks' laboratory course. Professor LOVELACE.

Chemistry 6: Advanced Organic Chemistry.

Twice weekly through the year. Professor E. E. REID.

Chemistry 7: Elementary Physical Chemistry.

Two lectures weekly, second half-year. Laboratory work for six weeks. Associate Professor PATRICK.

GENERAL AND ELECTIVE COURSES

The following prescribed and elective courses appear in the curricula of the several branches of Engineering. Most of them are conducted by the College of Arts and Sciences, usually in separate sections in which special attention is given to the needs of students in Engineering.

General Engineering.

One hour weekly through the year.

Required of all first-year students in Engineering. Conducted in rotation by the several faculties. The course aims to stimulate the interest of the student by descriptions of the problems of engineering. Addresses by engineers in active practice are a feature of this course.

Mathematics 1.

Three hours weekly through the year. Professor HULBURT and associates.

Plane Trigonometry; Plane Analytic Geometry; Elements of the Calculus. In addition to the class work, two hours per week are devoted to conferences.

Mathematics 2.

Three hours weekly through the year. Professor HULBURT and associates.

Differential and Integral Calculus. In addition to the class work, two hours per week are devoted to conferences.

Physics 1.

Four recitation hours, six laboratory hours weekly through the second year. Professor AMES and associates.

An introductory course in general physics, including Mechanics, Heat, Electricity, Magnetism, Sound and Light. A working knowledge of trigonometry and analytic geometry is required.

English Composition 1.

Three hours weekly through the year. Professor FRENCH and associates.

Rhetoric and English Composition. Theory based upon text-books, lectures and discussions; critical study of English prose; frequent practice in writing.

English Composition 2.

Two hours weekly through the year. Professor FRENCH and associates.

An advanced course in English Composition, with special emphasis upon the methods of persuasion and exposition. First half-year, writing; second half-year, speaking.

Modern Languages.

Four hours weekly through the year.

Courses are offered for beginners, or for more advanced students, in French, Italian, Spanish, and German. For further descriptions the *University Register* may be consulted.

Political Economy 1.

Three hours weekly through the year. Professor BARNETT and associates.

The course covers the leading principles of the production and distribution of wealth. Attention is also given to money and banking and to the elements of wages and corporation finance.

Summer Work in Engineering Practice.

At least three months in either the second or the third summer.

All students are urged to enter the employ of some form of industrial organization in the second and third summer. Three months of approved work of this character is required for the degree of Bachelor of Engineering.

MILITARY SCIENCE AND TACTICS

The purpose of this course is to qualify a student for commission as a Reserve Officer in the Army of the United States.

The University maintains a Senior Division Unit, Infantry, of the Reserve Officers' Training Corps under the direction and control of the War Department.

On entering the University the student may elect to enroll as a member of this unit for a period of two years, and, if he should desire, for an additional period of two years.

For the first two years the student is furnished his uniform by the government, and for the second two years is not only furnished his uniform, but is paid forty cents per day in cash for his services in the unit.

The student is afforded the opportunity of attending certain summer training camps free of any expense to him, including travel to and from such camps and subsistence at the camps.

The course, consisting of lectures, recitations, and practical instruction, is progressive throughout the four years. It trains the student in the duties of a soldier, non-commissioned officer, and commissioned officer of Infantry; it also develops his initiative, self-reliance, and personality; it teaches the student discipline, soldierly bearing, respect, and courtesy; it seeks to develop in the student the ability to reach quick and accurate decisions.

During the first year the student is taught the duties of a soldier and non-commissioned officer on the drill field; the second year trains the student in Military English, Topography, and Troop Leading; the third year is almost entirely devoted to Military Engineering; while in the last year the student is instructed in Military Law, International Law, and the specific duties of a lieutenant of Infantry.

Military Science and Tactics 1.

Two lecture or recitation hours and four hours in the field through the year. **Captain G. R. GUILD, Captain W. J. SCHMIDT, and assistants.**

(a) Theoretical.

Study of and recitations in a general military text, fundamentals of Military Science suitable to a first-year student as required by War Department orders.

Lectures suited to first-year students.

(b) Practical.

Infantry Drill; Physical Drill; Sub-caliber practice; Bayonet Training; Hand Grenades; Field Training; Machine Guns; Ceremonies; Guard Duty; etc.

Remarks:—A thorough grounding in the practical duties of a soldier of Infantry; a grounding in the fundamentals of the duties of an officer of Infantry. Fundamentals of troop leading on relief maps.

Military Science and Tactics 2.

Two lecture or recitation hours and four hours of practical training through the year. **Captain GUILD, Captain SCHMIDT, and assistants.**

(a) Theoretical.

Study of and written recitations in a general military text on Military Science, advanced, suitable to a second-year student, as required by War Department orders.

Lectures suited to second-year students.

(b) Practical.

Orders, Messages, and Reports; Military Topographical Engineering; Small Problems for Infantry on relief maps; Military Drawing.

Military Science and Tactics 3.

Two lecture or recitation hours and four hours of practical training through the year. Captain GUILD, Captain SCHMIDT, and assistants.

(a) Theoretical.

Study of and written recitations in a military engineering text.

Lectures in military engineering, history, and strategy.

(b) Practical.

Design of military structures; Camp Sanitary Engineering; Construction of military models; minor tactics.

Military Science and Tactics 4.

Two lecture or written recitation hours and four hours of practical training through the year. Captain GUILD, Captain SCHMIDT, and assistants.

(a) Theoretical.

Study and written recitations in a military text on military law and international law and relations.

Lectures in military law, international law, riot duty, history, and strategy.

(b) Practice in military courts, martial procedure; practice in company administration, infantry; minor tactics.

THE J. E. ALDRED LECTURES

Through the generosity of Mr. J. E. Aldred, the Department of Engineering offers a series of lectures in the Practice of Engineering. These lectures are designed primarily for undergraduate students. They, therefore, presuppose a minimum knowledge of theory and are intended to set prominently before the student the problems involved in the design, con-

struction, and operation of engineering enterprises, and the everyday methods of meeting these problems. The lecturers are chosen from those who are closely identified and in daily contact with the various types of engineering project which are treated in the lectures.

A further feature in connection with the Aldred lectures is that, whenever possible, the student body will visit plants, bridges, or other installations described in the lectures, which are planned with reference to this purpose. The students are subsequently required to write a report of the lectures and visits.

During the year 1918-19 lectures were given as follows:

February 5. The Public Service Electric Power System. Mr. Percy H. Thomas, Consulting Engineer, of New York City.

March 5. The Human Element in the Machine Shop. Mr. James Hartness, Past President, American Society of Mechanical Engineers; President, Jones & Lamson Company, Springfield, Vt.

March 12. Berthing and Repair Docks for Shipping. Rear Admiral Frederic R. Harris, U. S. N., Retired, formerly Chief of Bureau of Yards and Docks, Navy Department, Washington.

March 26. Safety from the Standpoint of Industrial Efficiency. Mr. C. W. Price, Field Secretary, National Safety Council, Chicago, Ill.

April 2. The Modern Steel Freight Ship. Mr. D. D. Thomas, Chief Engineer, Baltimore Dry Docks & Shipbuilding Company, Baltimore, Md.

April 9. The Duties of the Young Engineer on the Construction of a Hydro-Electric Plant. Mr. H. S. Slocum, Consulting Engineer, of New York City.

April 30. The Production of 50% Ferro-Silicon in the Electric Furnace. Mr. P. H. Falter, Shawinigan Electro Products Company, Baltimore, Md.

May 7. Ore Docks on the Great Lakes. Mr. John E. Greiner, Consulting Engineer, of Baltimore, Md.

May 14. Disturbing Currents in Telephone Systems. Mr. John B. Taylor, Consulting Engineer, General Electric Company, Schenectady, N. Y.

Requirements for Admission to Undergraduate Courses

Young men who wish to pursue undergraduate courses should apply to the Registrar of the University for a blank form of "Application for Admission," which must be filled up and *returned to the Registrar at least one week before the time set for the entrance examinations.*[1] These examinations are held at the University in September of each year. [September 15-18, 1919.]

To accommodate those who wish to take their examinations at other times and places, the University will accept certificates from the College Entrance Examination Board for subjects passed in accordance with its regulations. (See pages 287, 288.)

As soon as the application for admission is received, it will be acted upon by the Committee on Admission and Advanced Standing, and the applicant will be notified at once of the Committee's action. If admitted, he must then indicate to the Registrar, on a form sent him, his choice of courses for the first year; at the same time he must make a deposit of five dollars to cover the enrollment fee. This fee will be returned to any student who withdraws his name by September 24, 1919, and later to those who receive scholarships. The fee for enrollment after September 24 is *seven* dollars.

All undergraduate students, new and old, must enroll at the Registrar's Office on September 26, 27, or 29, 1919. A fine of one dollar for each day of delay will be levied against those who fail to enroll before 4 p. m. on September 29, 1919.

The Dean and the First-Year Advisers will meet all newly-admitted students on Monday, September 29, at 9 a. m., at which time students will be assigned to class sections. On Tuesday, September 30, all students must report at classes; absences will be reckoned double.

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[1] It is of advantage to a student to make application on or about the first of June, as in this case the Committee on Admission has an opportunity to recommend any additional preparation that may appear necessary.

Those who wish to become candidates for the degree of Bachelor of Engineering or of Bachelor of Science in Chemistry must present evidence of a satisfactory knowledge of the following subjects, detailed statements regarding which are made on pages 279-286.

1. Mathematics:	
a. Algebra *a* and *b* (1½ units)	(C. E. E. B., Math. A, or Math. A 1 and A 2).
b. Plane Geometry (1 unit).	(C. E. E. B., Math. C).
2. English (3 units).	(C. E. E. B., English 1 and 2).
3. Foreign Language (4 units required; not less than two units accepted in any one language:	
a. Latin: Grammar, Composition, and *Cæsar*, books I-IV (2 units).	(C. E. E. B., Latin 3).
Cicero, 6 orations (1 unit).	(C. E. E. B., Latin 4).
Vergil, books I-VI (1 unit).	(C. E. E. B., Latin 5).
b. Greek, c. French, d. German, e. Spanish — Elementary (2 units).	(C. E. E. B., Greek A 1, A 2, B, French A, German A, Spanish).
b. Greek, c. French, d. German, e. Spanish — Intermediate (1 additional unit).	(C. E. E. B., Greek A 1, A 2, B, C, F, G, French B, German B).
4. History (1 unit).	(C. E. E. B., History A, B, C, D, or E).
5. Electives, to make fifteen units in all, from the following subjects only:	
a. Solid Geometry (½ unit).	(C. E. E. B., Math. D).
b. Plane Trigonometry (½ unit).	(C. E. E. B., Math. F).
c. Languages (1 to 5 units additional).	
d. History.	
e. Physical Geography (1 unit).	
f. Biology (1 unit).	
g. Botany (1 unit).	(C. E. E. B. Equivalents).
h. Zoology (1 unit).	
i. Physics (1 unit).	
j. Chemistry (1 or 2 units).	
k. Mechanical Drawing (1 unit).	(C. E. E. B. Equivalent).

A student must have satisfied the foregoing requirements before he may be fully matriculated.

To show that he has a satisfactory knowledge of the subjects required for entrance, the applicant must submit a certified statement, on a blank furnished by the Registrar, signed by the principal of the school in which he has been prepared for college.

If the statement is satisfactory, the applicant will be admitted to such examinations as the Committee on Admission may prescribe; if it is unsatisfactory, the Committee will prescribe such conditions as may be necessary.

Applicants are received without examination upon the certificate of the principals of certain schools in or near the city of Baltimore which are known to the Board of Collegiate Studies, provided the certificates fully and satisfactorily cover the requirements for admission. If a student's grade in any subject is less than one-fifth higher than that required by his school for graduation, he will be required to take the entrance examination in that subject.

The admission of students from other schools, and of students who have not met in full the requirements for matriculation, rests with the Committee on Admission, which considers each case on its merits. In exceptional cases only are students admitted with conditions.

Division of the Entrance Examination

The applicant may pass a part of the examination one year before his admission to the University and receive credit, under the following conditions:

In his application *he must distinctly declare his intention to divide the examination.* The subjects passed will count toward matriculation if the applicant offers the remaining subjects within the ensuing year.

Advanced Standing

In general a student may be admitted to advanced standing only by passing the necessary examinations when he enters. Application must be made upon a blank form to be obtained from the Registrar.

A student who has completed two years in another college of approved standing may be admitted to the third year of the undergraduate curriculum on giving satisfactory evidence that he is qualified to pursue with advantage the courses of that year. Should he apply for a degree, he must show that he has completed courses equivalent to those required in the first two years in this University.

Students entering from other colleges, or from certain advanced schools recognized by the University, may be credited with work already done, provided acceptable certificates are submitted to the Committee on Admission and Advanced Standing.

General Regulations

Committees. The general control of the Department of Engineering is vested in the Advisory Committee of the Department of Engineering, appointed by the Trustees and consisting of the President of the University, the professors of Engineering, and certain professors of allied subjects.

All questions relating to the undergraduate courses in Engineering are referred to the Board of Engineering Studies.

Advisers. Each student upon admission is assigned to a member of the Faculty, who acts as his Adviser and endeavors to establish with him relations of friendliness and confidence. He not only gives counsel in regard to the selection of studies, but promotes the welfare of the student in every practicable way.

Courses. The standard course of study in the undergraduate classes of the University consists of three meetings, of one hour each, weekly through the year.

Certain courses in mathematics are accompanied by conferences, the time allotted to which is two hours per week. Courses in the sciences are accompanied by laboratory instruction, to which, in general, six hours per week are allotted, and are reckoned as one and one-half courses.

During the month of May in each year all students in resi-

dence must consult their Advisers with regard to the courses to be taken in the following academic year, and must report the courses selected to the Registrar *before June* 1. A fine of one dollar a day will be levied for delay in making this report. Changes may be made by notification to the Registrar at any time before September 24, 1919; after that date only with the approval of the Dean. Students who fail to attend courses selected, or who drop courses without the approval of the Dean, will be marked absent and will be subject to the regulations of the Committee on Absences.

For convenience the values of the various courses are stated in terms of "points." The basis of calculation is as follows:

a. Each three-hour course counts six points; each four-hour course, eight; etc.

b. Each hour of conference in mathematics counts one.

c. Each hour and a half of laboratory instruction counts one.

d. Each hour of lecture or recitation in the course in military science counts two.

Examinations. Examinations of all classes are held during the week beginning with the first Monday in February and at the close of the academic year. These examinations are based upon the work of the preceding term, and the time allotted is as follows: in a three- or four-hour course, three hours; in a one- or two-hour course, two hours; in a six-hour laboratory course, two sessions of three hours each in the laboratory.

All examinations are so arranged as not to interfere with the regular work of the members of the classes; additional tests may be given only if unannounced and held in place of the usual recitation.

Reports. Each instructor files with the Registrar at the close of each examination period official reports of the standing of each student in his classes. These reports are based both upon the regular exercises and the examinations and are

made in terms of the system of marks adopted by the Board. The average of the two marks is the record of the student for the year.

In case of illness or unavoidable absence at the time of an examination, a provisional mark is reported, based upon class-work, essays, etc. When the examination is taken, this mark is corrected, if necessary.

Informal reports on the standing of every student are made to the Registrar on December 10 and March 25.

Marks. The scale of marks for official reports is 10, 9.5, 9, etc. The highest mark is 10, which signifies "excellence," and a mark less than 6 denotes "failure."

In case a student has failed to complete a minor portion of a course, or is required to take a reëxamination, the mark D is reported. If this D is not changed within three weeks after the close of the examination, it automatically becomes 5.

Deficiencies. A student who has a failure in the work of any half-year must make up this deficiency before the close of the autumn matriculation examinations following, or he may not count that work toward graduation.

The removal of a deficiency does not alter the student's original mark.

Attendance. Punctual and regular attendance is required. Students who are unduly absent from any course will be debarred from the regular examinations therein. They may receive credit for the course only by passing a special examination, for which an additional fee is charged.

Probation. The Committee on Academic Rules and Regulations or the Board of Engineering Studies may at any time put on probation a student who falls behind in his work, and such student shall remain on probation until relieved by one of those bodies.

He must take to the Dean every two weeks a report from his several instructors stating whether or not his work dur-

ing that period has been satisfactory. If the report is unfavorable, the student may be immediately suspended from the University. Furthermore, a student on probation may not take part in student activities, literary, musical, or athletic, except by special permission.

Withdrawal from the University. A candidate for the bachelor's degree who has not passed all the matriculation examinations by the close of the September matriculation examination period at the beginning of his third year of residence, ceases to be a member of the University.

A student who, at any time, has in his record failures in three different courses, ceases to be a member of the University. A failure recorded on a previous official report, which has not been absolved by a second examination or by additional work, counts as one of these three. In case the student desires to return to the University, he must make written application to the Board of Engineering Studies.

A student who ceases to be a member of the University because of failure in his work during his first year of residence, may be permitted to repeat the work the following year, provided he passes the entrance examinations for that year.

Limitations upon Number of Courses. No student whose work is seriously in arrears, or who has not fully completed the entrance requirements, may, except by permission of the Board, take the full number of prescribed courses.

Student Organizations. No student is permitted to be a member of, or a candidate for, an athletic team, a musical or dramatic club, or an editorial board, if his average standing on the preceding official report is below " 7."

No " attendant upon a single course " is permitted to represent the University on any athletic team or in any athletic competition.

Repetition of Courses. Except in the case of required courses, a student may repeat a course only by permission of the Board of Engineering Studies.

Degrees

As evidence that the undergraduate course in Engineering has been successfully completed, the degree of Bachelor of Engineering is conferred at its close. This degree is not intended to indicate completion of formal educational training in Engineering, but rather to mark a starting point from which students, who are for any reason not able or inclined to continue in the rigid discipline of advanced professional study, may nevertheless enter with credit into engineering work under the direction of others.

The student will normally follow one of the courses as outlined in the foregoing pages. Substitution of other studies in place of those prescribed may be made only by special arrangement.

Application for credit for work done elsewhere and for advanced standing should be made to the Advisory Committee of the Department of Engineering before the opening of the year. (See page 344.)

A prerequisite for the degree is that the student shall have spent at least three months in the employ of an approved engineering or other industrial organization. Failing this, the degree is withheld until this condition is fulfilled.

The number of points required for the degree of Bachelor of Engineering is 149. (See page 346.)

The degree of Bachelor of Science in Chemistry is conferred on satisfactory completion of the undergraduate course as outlined on pages 334-336.

The degrees of Master of Civil Engineering, Master of Electrical Engineering, Master of Mechanical Engineering are conferred upon those who satisfactorily complete two years of professional study following the degree of Bachelor of Engineering, as described above, or its equivalent. The general character of this training and the courses which are followed have already been described. (See page 311).

The degree of Doctor of Philosophy is open to those who wish to proceed further in special professional study and original investigation, and who comply with the requirements for that degree as set forth in the *University Register*.

Scholarships

The legislative bill which established the Department of Engineering makes liberal provision for scholarships granting free tuition to deserving students who reside in the State of Maryland.

One hundred and eight scholarships are awarded to young men of Baltimore City and the various counties of the State whose means are such that they are unable to procure a technical education unless free tuition is granted them. In addition twenty-one scholarships are open to graduates of seven colleges of Maryland.

The scholarships are awarded so that as nearly as possible the same number of appointments in each county is made each year. For the year 1919-20 scholarships are vacant in the Counties and in Baltimore City in accordance with the following list:

Allegany	2	Garrett	3
Anne Arundel	1	Harford	1
Baltimore County	2	Howard	0
Baltimore City, 1st district	1	Kent	1
Baltimore City, 2d district	1	Montgomery	1
Baltimore City, 3d district	1	Prince George's	1
Baltimore City, 4th district	2	Queen Anne's	0
Calvert	2	Somerset	0
Caroline	1	St. Mary's	1
Carroll	2	Talbot	1
Cecil	3	Washington	1
Charles	2	Wicomico	1
Dorchester	4	Worcester	1
Frederick	1		

The total number of scholarships which may be held by the residents of the various Counties and of Baltimore City, is given in the following list:

Allegany	6	Garrett	3
Anne Arundel	4	Harford	3
Baltimore County	6	Howard	2
Baltimore City, 1st district	6	Kent	2
Baltimore City, 2d district	6	Montgomery	4
Baltimore City, 3d district	6	Prince George's	4
Baltimore City, 4th district	6	Queen Anne's	2
Calvert	2	Somerset	3
Caroline	3	St. Mary's	2
Carroll	4	Talbot	3
Cecil	3	Washington	5
Charles	2	Wicomico	3
Dorchester	4	Worcester	3
Frederick	5		

Competitive Examination for Scholarships

In order to secure one of these scholarships, application must be made both for entrance to the University and for the scholarship on blank forms which will be furnished by the Registrar of the University. Applications for the scholarships are considered only after the applicants have satisfied the requirements for admission. Examinations are held in September. [September 19, 1919.]

If there is more than one applicant for a particular scholarship, a special competitive examination is held the day following the Autumn entrance examinations. This examination is in Mathematics, English, and one of the four foreign languages—French, German, Spanish, Latin. The scope in each subject is that of the requirements for entrance. The examination in the three subjects covers one three-hour session.

Public announcement is made immediately of the relative standing of the applicants in the competitive examination. Each successful competitor then secures the certification

of the Senator from his county or legislative district that the applicant resides in such county or district, and that his financial circumstances are such that he is unable to pursue a technical education unless free tuition be granted. The results of the competitive examination are sent to each Senator, together with the necessary blank forms of certification. No award of a scholarship is made until this certificate is received.

In addition to the scholarships in the above list six scholarships "At Large" are awarded to any otherwise properly qualified residents of the State of Maryland.

Three scholarships are also offered to Maryland graduates of each of the following colleges: Loyola College, Maryland Agricultural College, Mt. St. Mary's College, Rock Hill College, St. John's College, Western Maryland College, and Washington College. The award of these scholarships is made without reference to the ability of the applicant to pay the fees, and is solely on the basis of merit as certified by the President of the College.

All the scholarships entitle the holders to free tuition, free text-books, and exemption from laboratory fees.

In each county and in each city legislative district the Senator has the privilege of assigning to one of the scholarship holders the "Senatorial Emolument" of $200, or other provision for defraying the cost of board and lodging. The recipient of the emolument is said to hold a "Senatorial Scholarship." Senatorial Scholarships may be awarded for 1919-20 in Baltimore City (3d District), Calvert, Cecil, Charles, Dorchester, Garrett, and Talbot counties.

The appointments to all scholarships are for one scholastic year, but the holders are eligible for reappointment from year to year if they conform in character, industry, and ability to the standards and requirements of the University.

Eighty-two scholarships were held during the year 1918-19.

ENDOWED PROFESSORSHIPS AND LECTURESHIPS

The Baxley Professorship

By the will of Dr. Henry Willis Baxley, of Baltimore, who died March 13, 1876, a sum of money, amounting to $23,836.52, was received by the Trustees of the University to endow any medical professorship that they might think proper. This fund was kept intact and allowed to accumulate until it had reached the sum of $50,000. In 1901 the Trustees directed that the fund be set apart as a partial endowment of the Professorship of Pathology in the University, to be known as the Baxley Professorship of Pathology. The first incumbent was Dr. William H. Welch, who, on his resignation in 1917, was succeeded by Dr. William G. MacCallum.

The Caroline Donovan Professorship

Mrs. Caroline Donovan, of Baltimore, gave to the University in November, 1889, shortly before her death, the sum of one hundred thousand dollars to establish a professorship of English literature. The first incumbent is Dr. James W. Bright, who was designated Caroline Donovan Professor of English Literature in 1905. During the intervening years courses of lectures were given by resident and non-resident scholars devoted to study in this field.

The Percy Turnbull Memorial Lectureship

On May 6, 1889, Mr. and Mrs. Lawrence Turnbull, of Baltimore, founded a lectureship in memory of their son, Percy Graeme Turnbull, their purpose being to enable the University to offer an annual course of lectures on poetry by a lecturer to be chosen by the President of the University from among "properly qualified authors, writers, or professors of

America or Europe." Twenty-two courses have been given on this foundation, the first in 1891. The list of lecturers includes Edmund C. Stedman, Richard C. Jebb, Charles Eliot Norton, George Adam Smith, Ferdinand Brunetière, and other foreign and American scholars of distinction.

The Herter Lectureship

Dr. and Mrs. Christian A. Herter, of New York, gave to the University in November, 1902, the sum of $25,000 "for the formation of a memorial lectureship designed to promote a more intimate knowledge of the researches of foreign investigators in the realm of medical science." The income of the lectureship is $1,000. According to the terms of the gift, some eminent worker in physiology or pathology is to be asked each year to lecture at the University upon a subject with which he has been identified. The selection of the lecturer is to be left to a committee representing the departments of pathology, physiological chemistry and clinical medicine, and "if in the judgment of the committee it should ultimately appear desirable to open the proposed lectureship to leaders in medical research in this country there should be no bar to so doing." Nine courses have been given on this foundation, beginning in 1904. The lecturers were Paul Ehrlich, of Frankfort-on-Main; Hans H. Meyer, of Vienna; Almroth E. Wright, of London; Edward A. Schäfer, of Edinburgh; Hans Chiari, of Strassburg; Albrecht Kossel, of Heidelberg; George H. F. Nuttall, of Cambridge; Thomas Lewis, of London; Theobald Smith, of New York.

The James Schouler Lectureship

In March, 1908, Dr. James Schouler, of Boston, who had lectured in this University annually since 1891, announced his purpose to found a permanent lectureship in the University, to be known as "The James Schouler Lectureship of History and Political Science." It is expected that the endow-

ment of the lectureship will eventually be $25,000. The donor expressed the wish that "such lectures be given annually if possible, * * * and that persons of promise or prominence be selected to lecture, who are capable of interesting as well as instructing an audience." The lectureship was inaugurated in April, 1909, and eight courses have been given, by Abbott Lawrence Lowell, George W. Prothero, John B. Moore, James Schouler, Joseph Redlich, Charles Francis Adams, William A. Dunning, and David J. Hill.

The Albert Shaw Lectureship

Dr. Albert Shaw, of New York, a graduate of this University, gives annually the sum of $250 as the honorarium of a lecturer on Diplomatic History. The lectures have been given before the advanced students of history and political science, beginning in 1898. The lecturers have, in most cases, been alumni of the University.

The J. E. Aldred Lectures

Through the generosity of Mr. J. E. Aldred, the Department of Engineering offers a series of lectures in the Practice of Engineering. These lectures are designed primarily for undergraduate students. A description of this course is given on page 340.

The George Huntington Williams Memorial Lectureship

In February, 1911, Mrs. George Huntington Williams, of Baltimore, her two sons, and Miss Cornelia Williams, of Utica, N. Y., gave to the University a fund to be known as the "George Huntington Williams Memorial Fund," to perpetuate the memory of Dr. George Huntington Williams, late Professor of Inorganic Geology and Petrography in this University. One-half of the income of the fund is to be devoted to promoting investigation in the department of Geol-

ogy; the remaining half is to be used in securing a lecturer of distinguished attainments on some topic of widespread contemporary interest. The lectureship is to be called "The George Huntington Williams Memorial Lectureship."

In January, 1904, the Trustees decreed that certain chairs should bear the names of leading contributors to the Endowment Fund of 1902, as memorials of their liberality. In pursuance of this action four professorships have been thus designated: The B. N. Baker Professorship of Chemistry; the Francis White Professorship of Greek; the W. W. Spence Professorship of Semitic Languages; the Henry Walters Professorship of Zoology.

THE JOHNSTON SCHOLARSHIPS

These scholarships, of which there are three, known as the Henry E. Johnston Scholarship, the James Buchanan Johnston Scholarship, and the Henry E. Johnston Jr. Scholarship, were founded in 1904 by Mrs. Harriet Lane Johnston, of Washington, formerly of Baltimore, in memory of her husband and her two sons. They are awarded annually by the Trustees on the recommendation of the Academic Council. The stipend of each scholarship is twelve hundred dollars per annum. They are offered primarily to young men who have given evidence of the power of independent research. The holders of the scholarships will be expected to devote themselves to study and research in their chosen subjects, though they may be required to do some teaching. Each one will be designated as the "Holder of the ..... Johnston Scholarship."

REGULATIONS

Candidates for the Johnston Scholarships must make application, in writing, to the President of the University *before the first of March*. The applications must be accompanied by such evidence of the candidates' fitness as they may be able to present. The President will refer the papers to the Academic Council, by whom the nominations will be made to the Board of Trustees at their meeting early in April.

Holders of the scholarships may not engage in teaching elsewhere.

The scholars will be appointed for one year; but, if their work prove satisfactory, they will generally be reappointed.

FELLOWSHIPS

FELLOWSHIPS BY COURTESY

The Academic Council may, at their discretion, by special vote, enroll as Fellows by Courtesy—

(*a*) Persons who are, or who have been, teachers in colleges and other like institutions, and who wish, for brief periods, to avail themselves of the opportunities here afforded for study and for the use of books and laboratories.

(*b*) Holders of fellowships in other colleges, during their residence here.

(*c*) Those who have been fellows of this University and desire to continue in residence.

Fellows by Courtesy will not be exempt from the payment of fees, except by special vote.

UNIVERSITY FELLOWSHIPS

Ten University Fellowships, established by the Trustees at the opening of the University, are annually awarded, in accordance with the following regulations:

1. The application must be made *prior to March* 1, in writing, addressed to the President of the University, and he will refer the papers to the Academic Council, by whom the nominations will be made to the Board of Trustees at their meeting in April. There is no prescribed form of application.

2. The candidate must give evidence of a liberal education, such as the diploma of a college of good repute; of decided proclivity towards a special line of study, such as an example of some scientific or literary work already performed; and of upright character, such as a testimonial from some instructor.

3. The value of each fellowship is five hundred dollars. The holder is not exempt from the charges for tuition. In case of resignation, promotion, or removal from the fellowship, payments will be made for the time during which the office shall have been actually held.

4. Every holder of a fellowship will be expected to perform such duties as may be allotted to him in connection with his course of study, to act when called upon as an examiner or as a moderator in the examination room, to give all his influence for the promotion of scholarship and good order, and in general to co-operate in upholding the efficiency of the University, as circumstances may suggest. He must reside in Baltimore during the academic year.

5. He will be expected to devote his time to the prosecution of special studies (not professional), under the direction of the head of the department to which he belongs, and before the close of the year to give evidence of progress by the preparation of a thesis, the completion of a research, the delivery of a lecture, or by some other method.

6. He may give instruction, with the approval of the President, by lectures or otherwise, to persons connected with the University, but he may not engage in teaching elsewhere.

7. He may be reappointed at the end of the year, but only for exceptional reasons.

8. As these fellowships are awarded as honors, those who are disposed, for the benefit of others, or for any other reason, to waive the pecuniary emolument, may do so, and still have their names retained on the honor list.

9. Successful candidates are expected to signify their acceptance *not later than April 15.*

THE ADAM T. BRUCE FELLOWSHIP

This fellowship was founded in 1887 by the mother of Adam T. Bruce, Ph., D., late fellow and instructor in this university, as a memorial of her son, and is awarded annually. It is bestowed by the appointing board upon the candidate whom they consider most likely to promote biological science, and especially animal morphology, by original research. The stipend is the income of the Adam T. Bruce Fellowship endowment of ten thousand dollars. Preference is given to those who have already held fellowships in the Johns Hopkins University.

The electors consist of the President of the University, the chief instructor in animal morphology, the chief instructor in animal physiology, and a non-resident member annually chosen by the resident electors.

REGULATIONS

Candidates for the Bruce Fellowship must make application, in writing, to the President of the University *before the first of March.* They must forward to the President, at the same time, such evidence of their qualifications for appointment as they desire to be considered by the electors, who may require any candidate to appear before them in person.

The Bruce Fellow shall devote his time to study and research in biology at a place approved by the President of the University, and he shall, during the month of February in the year of his tenure of the fellowship, send to the President a written statement of the scientific work accomplished by him since his appointment.

The tenure of the fellowship shall commence on the first of September.

Two hundred and fifty dollars shall be paid to the Fellow on October 1, and the remainder at convenient intervals during the tenure of the fellowship.

The holder shall not be more than thirty years of age at the date of his election.

The Bruce Fellow may be re-elected, but not oftener than twice, and he shall be exempt from charges for tuition.

The electors shall have the power to declare the fellowship vacant, if its holder prove, in their opinion, unworthy; and no further stipend shall be paid to such person.

Successful candidates are expected to signify their acceptance *not later than April 15.*

THE WILLIAM S. RAYNER FELLOWSHIP

The Rayner Fellowship was founded in 1899 by Mrs. Bertha Rayner Frank and Mr. Albert W. Rayner, of Baltimore, to perpetuate in this University the name of their father, Mr. William S. Rayner, who had made unusual attainments in the Hebrew language and was interested in the promotion of Semitic studies. The gift amounted to ten thousand dollars, and the income is available for a fellowship, which is bestowed annually by the Academic Council upon an advanced student in the department of Semitic Languages. Applications must be addressed to the President of the University, in writing, *before March 1.* Successful candidates are expected to signify their acceptance *not later than April 15.*

THE EDMUND LAW ROGERS FELLOWSHIP

This endowment, the amount of which is ten thousand dollars, was established in 1910 by Mrs. Edmund Law Rogers and her daughter, Mrs. Kirby Flower Smith, in memory of the late Edmund Law Rogers, of Baltimore, and is known as the Edmund Law Rogers Fellowship.

The fellowship, to which the University has added the privilege of exemption from tuition fees, is awarded annually for proficiency in both the Greek and the Latin languages and literatures. The candidate must have had at least two years of graduate study in the Johns Hopkins University, or have satisfied the examiners of his training and ability by written examinations and the submission of a thesis. In other respects, the conditions of the fellowship are the same as those applying to the University fellowships in this institution. Application must be made *prior to March 1,* in writing to the President of the University. Successful candidates are expected to signify their acceptance *not later than April 15.*

THE GEORGE HUNTINGTON WILLIAMS MEMORIAL FELLOWSHIP

It is expected that the "George Huntington Williams Memorial Fund" will provide for a fellowship in the department of Geology, to be known as the "George Huntington Williams Memorial Fellowship."

DU PONT FELLOWSHIPS

The E. S. du Pont de Nemours Company gave to the University in 1918 the sum of fifteen hundred dollars to establish two graduate fellowships in the department of Chemistry. These fellowships will be continued for the year 1919-20.

SCHOLARSHIPS FOR GRADUATE STUDENTS

UNIVERSITY SCHOLARSHIPS

For the encouragement of scholarship among those who have received the baccalaureate degree, and wish to continue their studies here, a number of University Scholarships are annually bestowed, as stated below:

1. Fifteen scholarships are open about the first of January to graduates of this or of other institutions who have been studying here during the previous part of the session. Those who wish to be candidates must make formal application to the President, *about December 15,* stating where they have been previously trained and what studies they have pursued in this University. He will appoint a committee of five to consider the applications, and, with the aid of such evidence as may be obtained, to make nominations to the Board of University Studies.

2. These scholarships entitle the holders to free tuition and are tenable for one year. They do not carry exemption from laboratory fees.

3. They are awarded as honors, and those who are disposed, for the benefit of others or for any other reason, to waive the pecuniary emolument, or who are desirous of studying elsewhere, may do so and still have their names retained on the honor list. Those who receive the emolument will be expected to pursue their studies exclusively in this University.

4. The Board will reserve appointments if worthy candidates do not offer.

HOPKINS SCHOLARSHIPS

In the will of the founder of this University, his Trustees are requested to "establish, from time to time, such number of free scholarships in said University as may be judicious, and to distribute the said scholarships among such candidates from the States of Maryland, Virginia, and North Carolina, as may be most deserving of choice, because of their character and intellectual promise, and to educate the young men so chosen free of charge."

In accordance with this request thirty scholarships, entitling the holders to free tuition for one year, are offered to graduate students from Maryland, Virginia, and North Carolina. In addition to these, the Trustees have established ten similar scholarships which are open to graduate students from States of the South and Southwest other than those named.

The scholarships, known as Hopkins Scholarships, are bestowed for merit, and awards are made by the Academic Council in April of each year. Students can be recognized as candidates only when legal residents of the State from which they desire to be appointed. Holders of scholarships are eligible for re-election, but must make formal application. Application, in accordance with a prescribed form, must be filed at the president's office *before March 1*. Successful candidates are expected to signify their acceptance *not later than April 15*.

Those who are disposed for any reason to waive the pecuniary emolument may do so, and still have their names retained on the honor list. Scholarships may be forfeited because of frequent or prolonged absence, defective scholarship, or unworthy conduct. Holders are not exempt from laboratory fees.

THE A. MARSHALL ELLIOTT ROMANCE SCHOLARSHIP

The will of the late Professor A. Marshall Elliott, who died in 1910, contains the following provision: "I give and

bequeath to the Johns Hopkins University, a body corporate, the sum of two thousand dollars to be used for the establishment of a scholarship for graduate students to be known as "The A. Marshall Elliott Romance Scholarship in the Johns Hopkins University."

The scholarship thus established is awarded annually, just before the Christmas recess, by the Academic Council, to one of the students in Romance Languages who at the time are in their first year of graduate work. The emolument of the scholarship is the income of the endowment during the preceding year.

THE GEORGE PEABODY SCHOLARSHIP

The George Peabody Scholarship was founded in 1912 by the Trustees of the Peabody Education Fund, who, in partial preparation for the closing of the Trust, presented to the University a gift amounting to six thousand dollars. This sum is to be held and used as the endowment of a Peabody Scholarship in the Department of Education.

The scholarship is open to men and women who are residents of "The Southern and Southwestern States of our Union," including Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, Missouri, North Carolina, South Carolina, Tennessee, Texas, Virginia and West Virginia. It is offered to candidates who can give evidence of a liberal education, such as the diploma of a college of good repute, and who intend to continue work in education, preferably in connection with a system of public schools in the territory mentioned above. Application must be made to the President of the University *prior to March 1.* There is no prescribed form. Successful candidates are expected to signify their acceptance *not later than April 15.*

The income of the scholarship is two hundred and seventy dollars per annum. The incumbent is expected to pay tuition and laboratory fees, and is eligible for reappointment.

WALTER COTTRELL QUINCY FUND

Mrs. Martha R. Quincy, formerly of Pittsburgh, provided by will for a legacy to the University of $20,000, to establish the "Walter Cottrell Quincy Fund," the annual income of which is to be equally divided among four meritorious students in the department of Physics to be selected by the President of the University. This fund was established in 1914.

WILLIAM H. GRAFFLIN SCHOLARSHIP

The Grafflin Scholarship was established in 1918 by a bequest of the late William H. Grafflin, of Baltimore, and is offered to advanced students who desire to conduct research in industrial chemistry. The income of the scholarship is one thousand dollars per annum.

The Trustees of the University have established five scholarships, yielding free tuition, for the benefit of graduate students from the Latin-American republics.

They also offer five scholarships of the same value to students from France, graduate or undergraduate.

SCHOLARSHIPS FOR UNDERGRADUATES

HOPKINS SCHOLARSHIPS

Sixteen "Hopkins Scholarships," established in accordance with directions contained in the will of the founder of the University, are open to residents of the State of Maryland. They entitle the holders to free tuition, but do not carry exemption from laboratory fees. They are tenable for the year subsequent to the appointment, the holders being re-eligible. Successful candidates who are disposed, for the benefit of others or for any other reason, to waive the pecuniary emolument, may do so, and still have their names retained on the honor list. The scholarships may be forfeited because of frequent or prolonged absence, defective scholarship, or unworthy conduct. These scholarships are awarded by the Board of Collegiate Studies, in accordance with the following regulations:

1. Four scholarships are open, at the beginning of the session, to entering students who are fully matriculated, and who stand best in a special examination in Mathematics and the foreign languages offered for matriculation. [*The examination in* 1919 *will be held September* 19. *Candidates must make written application to the Registrar not later than September* 12.]

2. Four are awarded in June to matriculated students whose records in the studies of the first year are most creditable. By "studies of the first year" is meant either the studies laid down for the first year in one of the suggested combinations, or such other studies, equivalent in amount, as may be approved of by the Committee on Scholarships and Honors.

3. Four are awarded for excellence in the studies of the second year, upon the same terms as in the case of the first

year, provided that the candidates shall have absolved the studies of the first year as above defined.

4. Four are awarded for excellence in the studies of the third year upon the same terms as in the case of the second year, provided that the candidates shall have absolved the studies of the first and second years.

WASHINGTON SCHOLARSHIPS

The Trustees offer to residents of the District of Columbia two scholarships yielding free tuition. These, like the Hopkins Scholarships, are awarded to undergraduate students for merit, do not carry exemption from laboratory fees, and are tenable for one year, the holders being eligible for reappointment.

WOODYEAR SCHOLARSHIPS

Mrs. William E. Woodyear, of Baltimore, gave to the Trustees in 1893, as a memorial of her husband, the sum of ten thousand dollars, in order to provide for the annual bestowal of five scholarships, of one hundred dollars each, under such conditions as the Trustees may from time to time prescribe. At present they are awarded to young men who are known to the President of the University to be in need of pecuniary assistance, and who, at the same time, have given evidence of character and ability.

MARYLAND SCHOLARSHIPS

Twenty "Maryland Scholarships" are annually offered to residents of this State who wish to pursue general courses in the arts and sciences. They entitle the holders to free tuition, but do not carry exemption from laboratory fees. The appointments are made for a single year, but the holders are eligible for reappointment. The scholarships are for the benefit of all parts of the State, and, accordingly, not more than one-half the number are awarded to residents of the city of Baltimore, and not more than one-half to those who are

already members of the University. The appointing board consists of the President of the Board of Trustees, the President of the University, and the Dean of the College Faculty. The usual entrance examinations must have been passed by the candidate, who must make application in accordance with a prescribed form, accompanied by testimonials certifying to the applicant's character and pecuniary need. *Students in residence must apply before June* 1; *newly-entering students not later than September* 24, 1919.

THE ELI M. LAMB MEMORIAL SCHOLARSHIP

The Alumni Association of the Friends' School of Baltimore gave to the University in 1916 a fund of twelve hundred and fifty dollars, to establish a scholarship to be known as the "Eli M. Lamb Memorial Scholarship." The income is fifty dollars per annum, to which the Trustees add free tuition to the extent of fifty dollars. The scholarship is offered to undergraduates prepared at the Friends' School, of which Mr. Lamb was the founder and for many years the active head.

THE A. Z. HARTMAN MEMORIAL SCHOLARSHIP

Under the will of the late Mrs. Susan M. Hartman, of Baltimore, the University has received a sum of money with which to establish a scholarship in memory of her husband, the late A. Z. Hartman, for many years Professor of Greek and Latin in the Baltimore City College.

THE Z. MORTON KATZ MEMORIAL SCHOLARSHIP

The friends of Z. Morton Katz, of Baltimore, formerly a student in this University, who lost his life in the battle of Montfaucon in France, have established a memorial scholarship to be awarded annually to a member of the graduating class of the Baltimore City College, on the ground of superior character and scholarship, preferably to a student who would not otherwise be financially able to enter the University.

BALTIMORE SUNDAY SCHOOL ASSOCIATION SCHOLARSHIP

The Sunday School Association of Baltimore City has established for the year 1919-20 two scholarships of two hundred dollars and one hundred and seventy-five dollars respectively, to be awarded to young men entering the University.

ENGINEERING SCHOLARSHIPS

One hundred and eight scholarships are offered to undergraduate students in the Department of Engineering, besides twenty-one to graduates of Maryland colleges.

PRIZES

THE JOHN MARSHALL PRIZE

This prize was established in 1891 by a lady living in New England. It consists of a bronze replica of a likeness of Chief Justice Marshall, and is awarded annually by the Academic Council to that graduate of the Johns Hopkins University who has made within the year the most valuable contribution to historical or political science.

THE HENRICO MEDALLION

This prize is the gift (made in 1902) of the Colonial Dames of America, Chapter I, and consists of a copper medallion bas-relief commemorating the foundation of a university at Henrico, in Virginia, in the year 1619. It is bestowed in alternate years upon a graduate or student of the Johns Hopkins University, not more than ten years after his receiving the degree of Bachelor of Arts, as a recognition of special excellence in early American History.

THE TOCQUEVILLE MEDAL

The Tocqueville medal has been given annually since 1898 by the Baron Pierre de Coubertin, of Paris, and is awarded by the University to that undergraduate student who shall have delivered the best speech in a contest in public speaking held annually in the second half-year. In this contest each speaker discusses some phase of a general topic, announced some weeks previously, chosen from the field of French history, politics, or literature in the nineteenth century. The speeches are delivered in English. The medal is given in honor of the illustrious Frenchman, Alexis de Tocqueville (1805-1859), author of the well-known historical and political studies, "Ancien Régime" and "Démocratie en Amérique."

THE SYLVESTER PRIZE

The Sylvester Prize is the gift of several Baltimore gentlemen, and is offered to advanced students of mathematics as a reward for original research. It consists of a medallion likeness of Professor J. J. Sylvester, the first professor of mathematics in this University.

THE SEVERN TEACKLE WALLIS MEMORIAL PRIZE

The Severn Teackle Wallis Memorial Prize was established in 1905 by the Wallis Memorial Association of Baltimore. It consists of about fifty dollars in money, and is offered to an undergraduate or a graduate student of the University for an essay on some subject connected with Spanish Literature or History, or for some original work done in either of said subjects. Essays must be submitted *before May* 1.

THE ADAMS PRIZES AND MEDAL

The Trustees set aside annually the sum of fifty dollars for the purchase of books to be awarded as prizes to the undergraduates who are successful in the annual public debates be-

tween members of the two higher classes. These prizes, which were originally offered by the late Professor Herbert B. Adams, are known as the Adams Prizes.

A gold medal known as the Adams Medal is also awarded annually to the best speaker in the public contest participated in by members of the second-year undergraduate class.

TUITION FEES AND EXPENSES

A. IN THE PHILOSOPHICAL DEPARTMENT AND THE DEPARTMENT OF ENGINEERING *

Tuition Fees

The charge for tuition is one hundred and fifty dollars per annum, payable at the Treasurer's office in semi-annual instalments, October 1 and February 1. There is no extra charge for instruction in any department of study, or for the use of the library and reading-room.

Enrollment Fee and Caution Money

All students, excepting those in the College Courses for Teachers, the Summer Courses, and the Evening Courses, are required at entrance to pay an enrollment fee of five dollars and deposit ten dollars as caution money, the latter being repaid to them when they leave the University, if there are no charges against them.

Fees are charged, as below stated, for material consumed in the laboratories and for diplomas.

No deduction is made at the Treasurer's office because of absence for a period of less than half a year, or because a

* See also page 374.

student gives only a part of his time to study, or because he belongs to but one class. Prompt payment of fees is required.

A fee of ten dollars is annually charged to every undergraduate during his residence in the University. In return for this charge, the student receives the use of the gymnasium, including locker and towel service, and of the Homewood field, and admission to all athletic contests at Homewood in which the University students participate. The money thus derived is devoted to defraying the expenses of the University Athletic Association. Graduate students who use the gymnasium will pay a locker fee of five dollars per annum.

Fees for Limited Attendance on Advanced Courses

Persons who are able to give only a portion of their time to study, and who are prepared to undertake graduate work, are permitted to attend lectures, not exceeding six weekly, on the payment of a tuition fee of ten dollars a year for each hour per week, in addition to the enrollment fee of five dollars (payable once only, at entrance) and the deposit of ten dollars as caution money. Persons attending more than six hours weekly will be required to pay the full tuition. Work in a laboratory may be taken by such persons as are not attending more than three lectures per week, upon payment, in advance, of the regular laboratory fee.

Candidates for the degree of Master of Arts or of Doctor of Philosophy, who are permitted, while in attendance at the University, to follow courses in a local Law School may, provided their courses of lectures at this University do not exceed six hours per week, enroll under the above provision, but for not more than one year; and this year may not be that in which the candidate intends to present himself for examination.

In the College Courses for Teachers the charge for instruction is ten dollars a year for each hour of instruction, payable in semi-annual instalments. Two or three hours of laboratory work, varying with the course, are charged as one hour of recitation or lecture. Students in all other divisions of the University, paying full tuition or on scholarship appointment, are permitted to register in any courses given in the College Courses for Teachers without payment of additional fees.

The matriculation fee for the degree of Bachelor of Science is $5.00, payable at the time of matriculation.

In the Summer Courses, the tuition fee is $25.00, payment of which entitles the student to attend as many as three courses. An additional course may be attended, with the approval of the Director, on the payment of an extra fee of $10.00. (Under very exceptional circumstances, a student may register in one course only. The tuition fee in such cases will be $15.00.) The fee for the use of the tennis courts at the athletic field, including towel service, is $2.00. Additional fees are required for materials used in some of the courses. No reduction of fees will be allowed for late entrance; nor for withdrawal, except on account of illness.

Checks will be received in payment of fees when drawn for the exact amount to the order of the Johns Hopkins University. For the convenience of students while in residence at the University, the Treasurer will receive out-of-town checks and drafts for payment upon collection. There is no charge for this service other than the exchange.

For the Evening Courses in Business Economics and for Technical Workers the fees are on the basis of ten dollars for each hour of instruction through the year.

Laboratory Charges

In Chemistry: For undergraduates and for graduates who take Chemistry as a subordinate subject, twenty-four dollars a year; for graduates and special students following Chem-

istry as their principal subject, and for fourth-year undergraduates in Chemistry, thirty-six dollars a year. For a half-year, one-half of these amounts.

In Physics: For students who work two afternoons a week, twenty-four dollars a year; for those who take Physics as their principal subject, thirty-six dollars a year. For a half-year, one-half of these amounts.

In Biology: For undergraduates and for graduates who take Zoology, Botany, or Physiology as a subordinate subject, twenty-four dollars a year; for graduates and special students following a biological science as their principal subject, thirty-six dollars a year. For a half-year, one-half of these amounts.

In Geology: Ten dollars a year; for a half-year, one-half of this amount. Students taking courses in Geology are expected to take part in a series of excursions, and to pay their personal expenses, which will, however, in no case amount to more than fourteen dollars.

In Experimental Psychology: For graduate students making this their principal subject, thirty-six dollars a year; if a subordinate subject, twenty-four dollars a year. For a half-year, one-half of these amounts.

In Engineering: For third- and fourth-year students in engineering subjects, twenty-four dollars a year (twelve dollars for a half-year); for candidates for advanced degrees thirty-six dollars a year.

In all the laboratories, a charge is made for breakage and for apparatus not returned in good condition.

Fellows by Courtesy and others who have the privileges of guests in the various laboratories, are expected to pay the usual laboratory charges.

Doctors of Philosophy of this University who desire to remain for a time in the University after having received their diplomas, may do so without charge for tuition, but they are required to pay the usual laboratory charges.

Exception to the foregoing charges can be made only at the written request of the Director of a laboratory, approved by the President of the University.

Graduation Fees

The graduation fees are as follows, payable before the delivery of diplomas:

Doctor of Philosophy,	$10.00
Master of Arts,*	10.00
Master of Engineering,	10.00
Bachelor of Arts,	5.00
Bachelor of Engineering,	5.00
Bachelor of Science,	5.00

B. IN THE MEDICAL DEPARTMENT

The charge for tuition is two hundred and fifty dollars per annum, payable in three instalments, October 15, January 15, and March 15. There are no extra charges, except for rental of microscope, laboratory breakage, and certain expensive supplies. A deposit of ten dollars is required from each student at the time of enrollment. This "caution money" is repaid when the student leaves, if there are no charges against him.

Bills may be paid at the Dean's office, or at the office of the Treasurer of the University at Homewood.

C. IN THE SCHOOL OF HYGIENE AND PUBLIC HEALTH

The charge for tuition in the courses leading to a degree is $250 per annum, payable at the office of the Director, in three instalments, one at the beginning of each trimester. For students taking special courses the charge for each course will be arranged on application.

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* If a Master of Arts proceeds to the degree of Doctor of Philosophy, he will be charged but $5.00 additional for that degree.

LIVING EXPENSES

The University has no dormitories or other living accommodations. Students may find comfortable homes in the vicinity—in boarding houses or with families.

Lists of desirable places are kept by the Secretary of the University Branch of the Young Men's Christian Association, by the Registrar of the Medical School, and by the Secretary of the School of Hygiene.

BUREAU OF APPOINTMENTS

The University Bureau of Appointments, authorized by the Trustees, is under the supervision of a committee of the faculty, the members of which are Professors E. F. Buchner, J. C. French, E. B. Mathews, C. J. Tilden, and R. V. D. Magoffin, the last named being the executive member of the committee with the title of Director. Professor French is at present acting as Director, Professor Magoffin being in military service.

This Bureau has each year secured for many resident students tutoring, reading, and clerical positions. It has placed graduating students in academic and non-academic positions. It also maintains a file in which many former students of the University are registered, and it has placed a number of these in better positions. This file is open to any former student of the University.

There are no fees attached to any of the services rendered by the Bureau of Appointments.

SUMMARY OF ENROLMENT OF STUDENTS

I.	GRADUATE STUDENTS:		
	A. Department of Philosophy:		
	1. Fellows by Courtesy,	12	
	2. Fellows:		
	University Fellows,	8	
	Adam T. Bruce Fellow,	1	
	William S. Rayner Fellow,	1	
	Du Pont Fellows,	2	
	William H. Grafflin Scholar,	1	
	George Peabody Scholar,	1	
	3. Other Graduate Students:		
	a. Candidates for higher degrees,	75	
	b. Special Students,	34	
			135
	B. Department of Medicine:		
	1. Candidates for the degree of Doctor of Medicine,	373	
	2. Attendants on Special Courses,	9	
			382
	C. School of Hygiene and Public Health:		
	1. Fellows,	6	
	2. Candidates for degrees,	7	
	3. Special Students,	9	
			22
	D. Department of Engineering:		
	Candidates for the degree of Bachelor of Engineering,		5
II.	UNDERGRADUATE STUDENTS:		
	1. Arts and Sciences,	350	
	2. Engineering,	264	
			614
III.	ATTENDANTS ON COLLEGE COURSES FOR TEACHERS:		
	1. Candidates for the degree of Bachelor of Science,	46	
	2. Special Students,	301	
			347
IV.	ATTENDANTS ON EVENING COURSES:		
	1. Business Economics,	228	
	2. Technical Courses,	157	
			385
V.	ATTENDANCE ON SUMMER COURSES 1918:		
	Graduate and College Courses,		326
	Total receiving instruction,		2216
	Counted more than once,		230
	Net total,		1986

SUMMARY OF THE FACULTY

President and Professors,	64
Clinical Professors,	7
Associate Professors,	47
Associates,	53
Instructors and Assistants,	129
	300
Lecturers for the year,	13
Additional Instructors in College Courses for Teachers, Summer Courses, Courses in Business Economics, Night Courses for Technical Workers, and Students' Army Training Corps,	50

GEOGRAPHICAL DISTRIBUTION OF THE STUDENTS IN THE REGULAR COURSES

Maryland (Baltimore, 519).	695	Washington,	4
New York,	52	Kansas,	3
Pennsylvania,	40	Louisiana,	3
Virginia,	37	Minnesota,	3
Ohio,	30	Nebraska,	3
Georgia,	16	Florida,	2
Massachusetts,	16	Montana,	2
North Carolina,	16	Philippine Islands,	2
Texas,	16	Delaware,	1
District of Columbia,	15	Mississippi,	1
Tennessee,	14	New Hampshire,	1
New Jersey,	13	New Mexico,	1
West Virginia,	13	Oregon,	1
Connecticut,	12	Porto Rico,	1
Indiana,	11	South Dakota,	1
California,	10	Vermont,	1
Missouri,	10	Wyoming,	1
Colorado,	9	China,	8
Kentucky,	9	Japan,	7
Michigan,	9	Canada,	4
Rhode Island,	8	Brazil,	2
South Carolina,	8	Bolivia,	1
Wisconsin,	8	Guatemala,	1
Illinois,	7	Mexico,	1
Iowa,	5	Panama,	1
North Dakota,	5	Peru,	1
Alabama,	4	Trinidad,	1
Arkansas,	4		
Maine,	4		1154

DISTRIBUTION OF GRADUATE STUDENTS BY COLLEGES

Adelphi College,	2	Gross Medical College,	1
Adrian College,	1	Guatemala National Institute,	1
Albany Medical College,	1	Guatemala Sch. of Medicine,	1
Albright College,	2	Guilford College,	3
Allegheny College,	2	Hamilton College,	2
Amherst College,	3	Hampden-Sidney College,	4
Arkansas, University of,	2	Harvard University,	14
Baldwin and Wallace Coll.,	1	Haverford College,	1
Barnard College,	1	Hobart College,	1
Bates College,	1	Hope College,	1
Baylor University,	2	Huron College,	1
Bowdoin College,	1	Illinois, University of,	3
Brown University,	6	Illinois Wesleyan Univ.,	1
Bryn Mawr College,	13	Indiana University,	1
Bucknell University,	3	Iowa State College,	1
California, University of,	4	Iowa, University of,	1
Carleton College,	1	Johns Hopkins University,	60
Catholic Univ. of America,	5	Kentucky Wesleyan College,	1
Centre College (Ky.),	1	Kentucky University,	4
Charleston College,	2	Kenyon College,	1
Chicago, University of,	3	Lafayette College,	1
Clark College,	2	Lake Erie College,	1
Colby College,	1	Lancaster Theological Sem,,	1
Colgate University,	1	Lebanon Valley College,	2
Colorado College,	5	Lehigh University,	1
Columbia University,	13	Leland Stanford Jr. Univ.,	1
Cornell University,	8	Louisiana State University,	1
Dalhousie University,	1	Loyola College,	1
Davidson College,	3	Marietta College,	1
Denison University,	3	Maryland, University of,	1
Denver, University of,	1	Massachusetts Inst. of Tech.,	1
De Pauw University,	2	McGill University,	1
Dickinson College,	3	Mercer University,	1
Earlham College,	4	Michigan Agricultural Coll.,	1
Elmira College,	1	Michigan, University of,	6
Emory University,	5	Minnesota, University of,	2
Emory and Henry College,	1	Mission House Coll. (Wis.),	1
Erskine College,	1	Mississippi College,	1
Fargo College,	2	Missouri, University of,	8
Florida State College for Women,	1	Missouri, Univ. Med. Coll., of	1
Franklin College,	1	Mount Holyoke College,	6
Franklin and Marshall Coll.	7	Mount St. Agnes College,	3
Furman University,	1	Mount St. Mary's College,	1
Fredericksburg College,	1	Mount Union College,	1
Georgetown College (Ky.),	1	Nanking University,	1
George Washington Univ.,	2	Nebraska, University of,	3
Georgia School of Technology,	1	Newberry College,	1
Georgia, University of,	7	Newcomb College,	1
Goucher College,	22	New Windsor College,	1
Grinnell College,	3	New York City College,	2
		New York University,	1

North Carolina, University of,	7	Southwestern University,	2
North Dakota, University of,	2	St. John's College,	6
Northwestern College,	1	Swarthmore College,	1
Notre Dame College (Md.),	1	Syracuse University,	3
Oberlin College,	6	Tennessee, University of,	4
Occidental College,	2	Texas, University of,	8
Ohio Northern University,	1	Tokyo, University of,	3
Ohio University,	2	Toronto, University of,	1
Ohio Wesleyan University,	5	Trinity College (Conn.),	1
Oregon, University of,	2	Trinity College (N. C.),	4
Oruro (Bolivia) Mining Sch.,	1	Union College,	1
Pennsylvania College,	4	Upper Iowa University,	1
Pennsylvania, University of,	2	Vanderbilt University,	3
Philippines, University of	1	Vassar College,	15
Pomona College,	1	Virginia, University of.	8
Porto Rico, University of,	1	Wabash College,	3
Princeton Theological Sem.,	1	Wake Forest College,	2
Princeton University,	18	Waseda University,	3
Radcliffe College,	1	Washington College,	3
Randolph-Macon College,	6	Washington University,	3
Rand.-Macon Woman's Coll.,	2	Washington & Jefferson Coll.,	3
Richmond College,	5	Washington & Lee University,	3
Rio de Janeiro, University of,	1	Wellesley College,	4
Roanoke College,	4	Wesleyan University (Conn.),	1
Rochester, University of,	5	West Virginia University,	4
Rock Hill College,	1	West Virginia Wesleyan Coll.,	2
St. Francis Xavier's College,	1	Western College for Women,	1
St. Ignatius' College,	1	Western Maryland College,	7
St. Lawrence University,	1	Western Reserve University,	1
Simmons College,	1	Westminster College (Pa.),	1
Smith College,	6	Williams College,	4
Southern California, Univ. of,	2	William Jewell College,	1
South Carolina, University of,	1	William and Mary College,	1
Southern University,	1	Wisconsin, University of,	15
Southern Methodist Univ.,	1	Wittenberg College,	2
Southwestern College,	1	Yale University,	11

DEGREES CONFERRED, 1914-1918

The names of the recipients of degrees to June, 1913, inclusive, are printed in the *University Circular*, April, 1914.

When the institution is not named, this University or the Johns Hopkins Hospital is to be understood. (F) Indicates holders of university fellowships here. * Deceased. The principal subjects of the Doctors of Philosophy and Masters of Arts are named.

Doctor of Philosophy

1914

Ashworth, John H. (F)—A. B. Emory and Henry 1906; Prof. Pa. Coll. 1914-18—Prof. Econ. &c. Ohio Wesleyan, Delaware, O.—(*Economics*)

Blossom, Frederick Augustus—A. B. Amherst 1898; Instr. Romance Lang. 1911-13—New York (7 E. 15th St.)—(*French*)

Bourne, Ella, Ph. B. DePauw 1893; Ph. M. Mich. 1897; Instr. Mt. Holyoke 1914-16—Instr. Latin, Vassar Coll. Poughkeepsie, N. Y.—(*Classical Archaeology*)

Clark, Floyd Barzilla—A. B. Richmond 1907; Instr. Pa. State Coll. 1914-16—Prof. Polit. Sci. A. and M. Coll. College Sta. Texas—(*Political Science*)

Clarke, Walter Fieldhouse—A. B. Hampden-Sidney 1908; Asst. Univ. of Ga. 1914-16—Bureau of Chem. Washington—(*Chemistry*)

Dolley, William Lee, Jr.—A. B. Rand.-Macon 1907—Prof. Biol. Rand.-Macon, Ashland, Va.—(*Zoölogy*)

Donaldson, John Levi, Jr. (F)—S. B. Md. Agric. 1910; Instr. Mt. Morris Coll. 1914-16—Prof. Hist. and Econ. Roanoke Coll. Salem, Va.—(*Political Science*)

Edwards, John Bowen (F)—A. B. West. Md. 1903—Prof. and Acting Dean, Dickinson Sem. 1914-15; Prof. Classics, S. W. Presb. Univ. 1915-18—Asst. Master, Shenandoah Valley Acad. Winchester, Va.—(*Greek*)

Elliott, Daniel Stanley (F)—A.B. 1911, A. M. 1913—Asst. Prof. Physics, Ga. School of Tech. Atlanta—(*Physics*)

Frederick, Edwin Louis (F)—A. B. 1911; Instr. A. & M. Coll. of N. C. 1914-17—Chemist, DuPont Co. Wilmington, Del.—(*Chemistry*)

***Gain, Josiah Wesley**—S. B. Chicago 1910: Assoc. Prof. Wash. and Jefferson 1914-15 — (*Mathematics*) — **Dec.* 18, 1914.

Gorton, William Stuart (F)—A.B. 1908, A. M. 1910; Instr. Mass. Inst. Tech. 1911-13; Asst. 1915-16—Bureau of Standards, Washington—(*Physics*)

Gossard, Harry Clinton (F)—S. B. Ohio Northern 1908— Asst. Prof. Univ. of Oklahoma 1914-18—Instr. Math. U. S. Naval Acad. Annapolis—(*Mathematics*)

Hamilton, Arthur—A. B. Harvard 1907; A. M. Mich. 1910; Instr. Western Reserve 1914-16; Instr. Romance Lang. Univ. of Wisconsin 1916-18—(*French*)

Karrer, Enoch (F) — A. B. Univ. of Wash. 1911—Bureau of Standards, Washington, D. C.—(*Physics*)

Kitasawa, Shinjiro—A. B. Waseda 1910; A. M. Univ. of N. C. 1911; Lect. Univ. of the South 1914-15—Prof. Econ. Waseda Univ. Tokyo—(*Political Economy*)

Lashley, Karl Spencer (F)—A. B. West Va. 1910; M. S. Pittsburgh 1911; Bruce Fellow 1914-15; Johnston Scholar 1915-17—Instr. Psychol. Univ. of Minn. Minneapolis—(*Zoology*)

Leake, James Miller (F)—A. B. Rand.-Macon; 1902; Assoc. Bryn Mawr 1914-17—Asst. Prof. Hist. Allegheny Coll. Meadville, Pa.—(*History*)

Lubs, Herbert August—A. B. Newberry 1910—Chemist, Bureau of Animal Industry, Washington—(*Chemistry*)

Lund, Elmer J.—Ph. B. Hamline 1910; Bruce Fellow 1911-14—Asst. Prof. Zool. Univ. of Minn., Minneapolis—(*Zoölogy*)

MacKenzie, Donald—A. B. 1908, A. M. 1911; Ensign, U. S. N. R.; Asst. Astronomy 1914-18—Bureau of Standards, Washington, D. C.—(*Physics*)

Miller, Bessie Irving (F)—A. B. Goucher 1907—Prof. Math. Rockford Coll. Ill.—(*Mathematics*)

***Richards, Annabella Elliott**—A. B. Bryn Mawr 1907; Asst. Medicine 1914-15; Instr. Bryn Mawr 1917-18; Instr. Physiol. Chem. 1918-19—(*Physiological Chem.*) **Feb.* 8, 1919.

Schmeisser, Henry Christian (F)—A. B. 1908, M. D. 1912—Assoc. Pathol.; Lieut. M. C.—(*Pathology*)

Shenton, Walter Francis—S. B. Dickinson 1907; Instr. Math. 1918; Instr. Naval Acad. Annapolis—(*Mathematics*)

Sirich, Edward Hinman (F)—A. B. 1906; Prof. St. John's (Md.) 1908-12; Instr. French, Univ. of Minn. 1914-17—Lieut. Ordnance Dept. U. S. R.

Taylor, William Anthony—A. B. Rand.-Macon 1908—Chemist, DuPont Co. Wilmington, Del.—(*Chemistry*)

Trexler, Harrison Anthony (F)—Ph. B. Bellevue Coll. 1906—Asst. Prof. Econ. Univ. of Montana, Missoula—(*History*)

Wolman, Leo (F)—A. B. 1911; Prof. Hobart Coll. 1914-15; Lectr. 1915-16; Instr. Univ. of Mich. 1916-17—Assoc. 1917-19; Statistical Expert, Council of Nat. Defense—(*Economics*)

Young, Mabel Minerva—A. B. Wellesley 1898; A. M. Columbia 1899—Instr. Math. Wellesley Coll. Mass.—(*Mathematics*)

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1915

Armstrong, Mary Emma (F)—A. B. Olivet 1894; A. M. Mich. 1898—Instr. Latin, Goucher Coll. Balt.—(*Classical Archaeology*)

Coolidge, Walter Hatheral—Ph. B. Kenyon 1912; Prof. Georgetown Coll. Ky. 1914-16; Central Univ. Ky. 1916-18—Prof. Chem. Earlham Coll. Richmond, Ind.—(*Chemistry*)

Dunn, Grace Adelaide—Ph. B. Hamline 1909; A. M. 1914; Prof. Botany, Lake Erie Coll. 1917-18—Bureau of Plant Industry, Washington.—(*Botany*)

Gorton, Arthur Feddeman (F)—A. B. 1912, A. M. 1914; Instr. Univ. of Minn. 1915-16; Instr. 1916-17—Physicist, Toledo, O.—(*Physics*)

Greenfield, Kent Roberts (F)—A. B. West. Md. 1911—Instr. Hist. Delaware Coll. Newark—(*History*)

Holmes, James Eugene Levering. (F)—A. B. 1912—Chemist, DuPont Co. Wilmington, Del.—(*Chemistry*)

Hopkins, Marion Byrd—A. B. 1912—Chemist. City Board of Health, Balt.—(*Chemistry*)

Hubbert, Helen B. (F)—A. B. Missouri Valley 1907; Adj. Prof. Psychol. Rand.-Macon Woman's Coll. 1915-17—401 S. 51st St., Phila.—(*Psychology*)

Hulburt, Edward Olson—A. B. 1911—Instr. Physics, West. Reserve Univ. 1915-17—Lieut. Signal Corps, U. S. R.; Instr (*elect*)—(*Physics*)

Lloyd, Howard Huntley—A. B. 1912-14; Lectr. 1916-17—Assoc. Prof. Chem. Goucher Coll. Balt.—(*Chemistry*)

McLean, Forman Taylor—Yale (Ph. B. 1907, M. F. 1908)—Instr. Plant Physiol. Univ. of Philippines, Los Banos—(*Plant Physiology*)

Middleton, Austin Ralph (F)—A. B. 1910—Assoc. Prof. Zool. Univ. of Louisville, Ky.—(*Zoology*)

Miller, Ellis (F)—A. B. 1912—Assoc. Chem.—(*Chemistry*)

Moseley, Thomas Addis Emmet—A. B. 1907; Instr. Princeton 1915-16—Prof. Romance Lang. Wash. & Jefferson Coll. Washington, Pa.—(*Italian*)

Mullikin, Richard Nicholas—A. B. 1912—Chemist, DuPont Co. Wilmington, Del.—(*Chemistry*)

Musselman, Amos Sentman—A. B. Pa. Coll. 1912—Chemist, Standard Oil Co., Whiting, Ind.—(*Chemistry*)

Overbeck, Robert Milton (F)—A. B. 1909—U. S. Geol. Survey, Washington—(*Geology*)

Paulus, Max G. (F)—A. B. 1912—Chemist, Standard Oil Co., Whiting, Ind.—(*Chemistry*)

Pratt, Lyde Stuart—A. B. Bowdoin 1912; Assoc. Prof. Univ. of Va. 1915-17—Chemist, DuPont Co. Wilmington, Del—(*Chemistry*)

Putnam, Willis S.—S. B. Worcester Polytech. 1889; Prof. Women's Coll. of Del. 1915-16—Instr. Chem. Cooper Union, N. Y.—(*Chemistry*)

Reeside, John Bernard, Jr. (F)—A. B. 1911—Lieut. U. S. A.; U. S. Geol. Survey, Washington—(*Geology*)

Rogers, Lindsay (F)—A. B. 1912; LL. B. Univ. of Md. 1915—Assoc. Prof. Polit. Sci. Univ. of Va.—(*Political Science*)

Sehrt, Edward Henry (F)—A. B. 1911; Instr. Delaware Coll. 1915-17; Lectr. Bryn Mawr 1917-18—Prof. Mod. Lang. Washington Coll. Chestertown, Md.—(*German*)

Shields, Emily Ledyard (F)—A. B. Bryn Mawr 1905—Instr. Latin, Smith Coll. Northampton, Mass.—(*Classical Archaeology*)

Shive, John Wesley (F)—Ph. B. and A. M. Dickinson 1906—Plant Physiologist, Agric. Exper. Sta. New Brunswick, N. J.—(*Plant Physiology*)

Sousley, Clarence Piersall—A. B. Ky. Wesleyan 1909; Instr. Mt. St. Mary's Coll. 1915-16—Instr. Math. State Coll. Pa.—(*Mathematics*)

Stocking, Ruth Jennings (Mrs. Vernon Lynch) (F)—A. B. Goucher 1910; Prof. Agnes Scott Coll. 1915-17; Asst. Prof. Carnegie Inst. Pittsburgh 1917-18—Instr. Protozool. Sch. of Hygiene—(*Zoölogy*)

Wallis, Benjamin Franklin—A. B. 1910; Instr. Bryn Mawr 1915-16, Lehigh 1916-17—Geologist, Guayaquil, Ecuador—(*Geology*)

Watkins, Charles—A. B. Wash. and Lee 1909; M. S. Vanderbilt 1911—Prof. Chem. Mellon Inst. Pittsburgh—(*Chemistry*)

Weyforth, William Oswald, Jr.—A. B. 1912; Instr. Western Reserve Univ. 1915-17—Capt. U. S. A. (Gen. Staff); Assoc. (*elect*)—(*Economics*)

Yokoyama, Tomikichi — Ph. B. Kansas City Univ. 1909; B. D. Westminster (Md.) Theol. Sem. 1910—Bureau of Agriculture, Seoul, Korea—(*Political Science*)

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1916

Albright, William Foxwell (F)—A. B. Upper Iowa 1912; Rayner Fellow 1914-17, Instr. Semitic 1916-17, Johnston Scholar 1917-18—Rayner Fellow (*Assyrian*)

Blocher, John Milton, Jr.—S. B. Pa. Coll. 1913—Prof. Chem. Baldwin-Wallace Coll. Berea, O.—(*Chemistry*)

Brown, William Norman (F)—A. B. 1912 — Harrison Research Fellow Univ. of Pa.; Johnston Scholar (*elect*)—(*Sanskrit*)

Brown, William Stephen—E. E. Rensselaer Polytech. 1913—Elec. Engr. Pittsburgh (16th and Pike Sts.)—(*Electrical Engineering*)

***Burton, John Marvin (F)**—A. B. Rand.-Macon 1909; Prof. Romance, Millsaps Coll. 1916-18—(*French*)—**Oct.* 5, 1918 (*in France*).

Churchill, Edward Perry (F)—A. B. Iowa Univ. 1907—Scientific Asst. Bureau of Fisheries, Washington—(*Zoölogy*)

Connolly, Gerald Charles—A. B. Rock Hill 1912—Lieut. U. S. A.; Chemist, Davison Chem. Co. Balt.—(*Chemistry*)

Dickey, Robert William (F)—Wash. and Lee (S. B. 1910, A. B. 1911); A. M. 1915—Assoc. Prof. Physics, Wash. and Lee, Lexington, Va.—(*Physics*)

Hoxton, Llewellyn Griffith—Univ. of Va. (A. B., B. S., A. M., 1900, now Prof. Physics)—(*Physics*)

Hutchinson, John Foster—S. B. S. C. Mil. Coll. 1913; A. M. Charleston 1914—Chemist, Kenvil, N. J.—(*Chemistry*)

Johnson, Buford Jennette—A. B. La Grange (Ga.) 1905; A. M. 1915; Peabody Scholar 1915-16—Bureau of Educ. Exper. New York (16 W. 8th St.)—(*Education*)

Kelly, Caleb Guyer—A. B. 1908—Educational Missionary, Tunis, N. A.—(*History*)

Kimball, John Willard—S. B. Colby 1912; Asst. Chem. Univ. of Me. 1916-18—Chemist, DuPont Co., Arlington, N. J.—(*Chemistry*)

Lilly, Marie Loretto (F)—A. B. Notre Dame (Md.) 1900; A. M. 1914; Instr. Mt. St. Agnes Coll. 1916-17—Instr. Engl. Dominican Coll. San Rafael, Cal.—(*English*)

Loring, Mildred West (F)—Univ. of Washington (A. B. 1912, Fellow 1912-13, A. M. 1913); Sarah Berliner Fellow, 1916-17—Instr. Psychol. Univ. of Washington, Seattle—(*Psychology*)

Markel, Paul D—S. B. Pa. Coll. 1913.—Chemist, Port Arthur, Tex.—(*Chemistry*)

McCall, Arthur Gillett—Ohio State (B. Sc. 1900, late Prof. Agronomy)—In charge of soil investigations, Md. State Coll. College Park—(*Plant Physiology*)

Millspaugh, Arthur Chester (F)—A. B. Albion 1908; A. M. Univ. of Ill. 1910; Prof. Whitman Coll. 1916-17; Instr. 1917-18—Bureau of Foreign Trade Advisers, Washington—(*Political Science*)

Morimoto, Kokichi—Sapporo Univ. 1901—Asst. Prof. Economics, Imperial Univ. Sapporo, Japan—(*Economics*)

Murnaghan, Francis Dominic — Nat. Univ. of Ireland (A. B. 1913, A. M. 1914); Instr. Rice Inst. 1916-18—Assoc. Applied Math.—(*Mathematics*)

Musselman, John Rogers (F)—A. B. Pa. Coll. 1910—Instr. Math. Univ. of Ill. Urbana—(*Mathematics*)

Myrick, Raymond Thompson (F)—S. B. Earlham 1912—Chemist, Standard Oil Co., Whiting, Ind.—(*Chemistry*)

Ordeman, George Frederick—Wash. and Lee (S. B. 1912, now Assoc. Prof. Chem.) Lexington, Va.—(*Chemistry*)

Owens, Oscar Lee — A. B. Richmond 1898; A. M. 1913—Chaplain, U. S. A.—(*Political Science*)

Pardee, Arthur McCay—A. B. Wash. and Jeff. 1907; Prof. Tarkio Coll. 1918—Prof. Chem. Wash. and Jefferson, Washington, Pa.—(*Chemistry*)

Rawlins, Charles Henry, Jr. (F)—Ph. B. Dickinson 1910; Instr. Delaware Coll. 1916-18—Instr. Naval Acad. Annapolis—(*Mathematics*)

Reeves, Frank—A. B. West Va. 1911.—U. S. Geol. Survey, Washington—(*Geology*)

Ruth, Thomas DeCoursey (F)—A. B. 1906; Instr. Princeton 1912-15; Lectr. Bryn Mawr 1916-17; Headmaster, St. Paul's School, Balt. 1917-18—1st Lieut. (Gen. Staff), Washington—(*Latin*)

Sachs, John Harrison—S. B. Pa. Coll. 1910—Chemist, DuPont Co. Wilmington, Del.—(*Chemistry*)

Smelser, David Paul, Jr.—A. B. New Windsor 1912—Federal Trade Comm. Washington—(*Economics*)

Starck, Adolf Ludwig Taylor (F)—A. B. 1911—Instr. German, New York Univ.—(*German*)

Steinbach, Reuben (F)—A. B. 1913.—Instr. Rabbinical Sem. N. Y.—(*Hebrew*)

***Stockett, Joseph Noble, Jr.**—A. B. 1911; Instr. Econ. Dartmouth 1916—(*Economics*) **Sept.* 28, 1916.

Van Epps, George Dudley—S. B. Ga. Tech. 1913—Chemist, Port Arthur, Tex.—(*Chemistry*)

Weglein, David Emrich—A. B. 1897; A. M. Columbia 1912—Princ. West High Sch. Balt; Instr. Education—(*Education*)

Woodring, Wendell Phillips (F)—A. B. Albright 1910; Research Asst.—(*Geology*)

Wroth, Benjamin Blackiston—A. B. Wash. (Md.) 1908; Instr. Ga. Tech. 1916-18—Acting Head, Dept. of Chem. Earlham Coll. 1918-19—Chemist, Standard Oil Co. Whiting, Ind.—(*Chemistry*)

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1917

Bramble, Charles Clinton (F)—Ph. B. Dickinson 1912—Instr. Math. Naval Acad. Annapolis—(*Mathematics*)

Branham, Grace Bagnall—A. B. Bryn Mawr 1910; A. M. 1916—Instr. Rosemary Hall, Greenwich, Conn.—(*English*)

Campion, John Leo—A. M. Columbia 1912; Johnston Scholar 1914-15; Instr. German, Univ. of N. C. 1916-18 +6 Morningside Av. New York—(*Germanic Philology*)

Child, John Allan—A. B. Harvard 1899—Instr. Romance Lang. Univ. of Chicago—(*Italian*). [*Degree conferred Nov.* 6, 1917)

Cox, Leslie Cornelius—A. B. Toronto 1913; Rogers Fellow 1914-17—Asst. Prof. Classics, Hamline Univ. St. Paul, Minn.—(*Latin*)

Dotterer, Ray Harbaugh—Ph. B. Franklin and Marshall 1906; A. M. 1916—Clergyman, State College, Pa.—(*Philosophy*)

Emmet, Boris—A. B. Wisconsin 1913—Expert, Bureau of Labor Statistics, Washington—(*Economics*)

Faber, Edgar McCreary—A. B. Pa. Coll. 1914—Chemist, DuPont Co. Wilmington, Del.—(*Chemistry*)

Fox, Early Lee—A. B. Randolph-Macon 1909; A. M. 1914—Prof. History, West Va. Wesleyan Coll. Buckhannon—(*History*)

Freas, Raymond—A. B. Wittenberg 1906; Instr. Chem. Univ. of Va. 1917-18—(*Chemistry*)

Free, Edward Elway—A. B. Cornell 1906—Captain, Ordnance Dept. U. S. R.—(*Plant Physiology*)

Gordon, Neil Elbridge—Ph. B. Syracuse 1911—Asst. Prof. Chem. Goucher Coll. Balt.—(*Chemistry*)

Hastings, Walter Scott—A. B. Princeton 1910; Instr. French 1916-17—Lieut. U. S. A., A. E. F.—(*French*)

Havens, George Remington (F)—A. B. Amherst 1913—Instr. Indiana Univ. 1917-18—Y. M. C. A. France; Instr. (elect) Ohio State Univ. Columbus—(*French*)

Hildebrandt, Frank Merrill—A. B. 1913—Lieut. U. S. R.; Research Fellow, Mellon Inst. Pittsburgh, Pa.—(*Plant Physiology*)

Hobbs, Allan Wilson—A. B. Guilford 1907, Haverford 1908—Instr. Math. Univ. of N. C. Chapel Hill—(*Mathematics*)

Holtzclaw, Henry Fuller—A. B. Arkansas Univ. 1913—1st Lieut. Air Service, Vancouver Barracks, Wash.—(*Economics*)

Howell, Roger (F)—A. B. 1914—1st Lieut. Infantry, U. S. R.; Atty. at Law, New York (34 W. 44th St.)—(*Political Science*)

Johnson, Elizabeth Friench—A. B. Goucher 1911; A. M., 1916—Instr. German, Sweet Briar Coll. Sweet Briar, Va.—(*German Literature*)

Johnson, Harry Isaac—A. B. Roanoke 1912—Instr. Chem. Univ. of Louisville, Ky—(*Chemistry*)

Johnston, Earl Steinford—Ph. B. Dickinson 1913—Assoc. Plant Physiologist, Md. State Coll. College Park—(*Plant Physiology*)

Kanton, Ethel Dorothea—A. B. Goucher 1911; A. M., 1913—Instr. State Normal. Coll. Greensboro, N. C.—(*English*)

Lauchheimer, Malcolm Horace—A. B. 1914—Lieut. U. S. R.; Balt. (2122 Bolton St.)—(*Political Science*)

Lyons, Edward—S. B. Washington and Lee 1912—Chemist, Picatinny Arsenal, Dover, N. J.—(*Chemistry*)

McCobb, Arthur Lewis—A. B. Bowdoin 1905; A. M., Harvard 1910; Instr. German, Mass. Inst. of Tech. 1917-18—Ensign, U. S. N. R.—(*Germanic Philology*)

Meggers, William Frederick—A. B. Ripon 1910; A. M. Wisconsin 1916—Physicist, Bureau of Standards, Washington—(*Physics*)

Minter, Clarke Cothran—S. B. Davidson 1913—Aviation Section, U. S. R.; Balt. (2016 Mt. Royal Ter.)—(*Chemistry*). [*Degree conferred Feb.* 22, 1917]

Mohler, Fred Loomis—A. B. Dickinson 1914; A. M. 1916—Physicist, Bureau of Standards, Washington—(*Physics*)

Rabinowitz, Elias N.—A. B. Haverford 1903; Rayner Fellow 1913-14—Chaplain, U. S. A. France—(*Hebrew*). [*Degree conferred Feb.* 22, 1917]

Robinson, Edna Moore (F)—A. B. Chicago 1907—Prof. English, Mt. Morris Coll. Mt. Morris, Ill.—(*English*)

Robinson, Jesse Squibb—A. B. Allegheny 1911—Prof. (*elect*) Simpson Coll. Indianola, Iowa.—(*Economics*)

Rogers, Thomas Hunton—A. B. Centre 1914—Standard Oil Co. Whiting, Ind.—(*Chemistry*)

Root, Francis Metcalf (F)—A. B. Oberlin 1911; Bruce Fellow 1915-17—Captain, Infantry, U. S. R.; Teaching Fellow, Sch. of Hygiene.—(*Zoölogy*)

Schaffer, Aaron (F)—A. B. 1914—Asst. French and English—(*German Literature*)

Sease, Virgil Bernard (F)—A. B. Newberry 1909—Chemist, DuPont Co. Arlington, N. J.—(*Chemistry*)

Simpson, Kemper—A. B. 1914—Federal Trade Comm., Washington—(*Economics*)

Thom, William Taylor, Jr. (F)—S. B. Wash. and Lee 1913—U. S. Geol. Survey, Washington—(*Geology*)

Tottingham, William Edward—S. B. Mass. Agric. 1903; M. S. Wisconsin 1908—Asst. Prof. Agric. Chem. Univ. of Wis. Madison—(*Plant Physiology*)

Trelease, Sam Farlow—A. B. Washington Univ. 1914—Instr. Coll. of Agric. Manila, P. I.—(*Plant Physiology*)

Voss, Vivian—A. B. Transvaal Univ. Coll. 1913; A. M. 1916—Royal Flying Corps, British Army—(*Physics*)

Wade, Bruce—S. B. Vanderbilt 1913—Lieut. U. S. A.; State Geol. Survey, Nashville, Tenn.—(*Geology*)

Warren, Howard Crosby—A. B. Princeton 1899—Stuart Prof. Psychol. Princeton—(*Psychology*)

Whiteford, Gilbert Hayes—S. B. Md. Agric. 1897; A. M. Columbia 1912—Instr. Chem. Colo. Agric. Coll. Ft. Collins—(*Chemistry*)

Williams, Ralph Coplestone—A. B. 1908—Instr. Ohio State Univ. Columbus—(*French*)

Wilson, Lucy (F)—A. B. Wellesley 1909—Instr. Psychol. Wellesley; Waban, Mass.—(*Physics*) (45)

1918

Bagby, English—A. B. Princeton 1913—1st Lt. Sanitary Corps (Aviation Research)—(*Psychology*)

Bloomhardt, Paul Frederick (F)—A. B. Pa. Coll. 1909; Gettysburg Theol. Sem. 1912—Chaplain, U. S. N.—(*Hebrew*)—[*Degree conferred Feb.* 22, 1918]

Child, John Allan (F)—A. B. Harvard 1899—Instr. Romance Lang. Univ. of Chicago—(*Italian*)—[*Degree conferred Nov.* 6, 1917]

Cohen, Teresa (F)—A. B. Goucher 1912; A. M. 1915—Alice Freeman Fellow 1918-19; Univ. of Ill., Urbana—(*Mathematics*)

Dorsey, George Edwin (F)—A. B. 1914—Geologist, Tulsa, Okla. (908 N. Main St.)—(*Geology*)

Fawcett, Howard Samuel—B. S. Iowa State Coll 1905; M. S. Fla. Univ. 1908; Johnston Scholar, 1916-17—Assoc. Prof. Plant Physiol. Univ. of Cal., Berkeley—(*Plant Physiology*)

Helm, Emerson Bennette—B. S. Fla. Univ. 1915—Chemist, Cleveland, O. (1133 E. 71st St.)—(*Chemistry*)

***Lynch, Vernon**—A. B. 1914, Asst. Physiol. 1916-18—(*Physiology*)—**July* 25, 1918—[*Degree conferred Feb.* 22, 1918]

Mitchell, John Broadus (F)—A. B. S. C. Univ. 1913—Instr. Pol Econ.—(*Economics*)—[*Degree conferred Feb.* 22, 1918]

Taliaferro, William Hay—B. S. Va. 1915; Bruce Fellow 1917-18—Instr. Protozoology, School of Hygiene—(*Zoölogy*)

Tansill, Charles Callan—A. B. Cathoiic Univ. of Amer. 1912, A. M. 1913, Ph. D. 1915—(*History*)

Thalheimer, Alvin—A. B. Harvard 1914—Baltimore (Riviera Apts.)—*Philosophy*) (12)

Doctor of Medicine

1914

Batten, Grover A.—A. B. Washington and Lee 1908; R. H. O.* 1914-15—Physician, Honolulu, T. H.

Bayne-Jones, Stanhope—A.B. Yale 1910; R. H. O. 1914-15; Rockefeller Fellow and Asst. Res. Path. 1915-16; A. M. 1917—Assoc. Bacteriol.; Capt. M. C.

Belt, Mabel—A. B. Goucher 1910—Physician, Balt. (Arundel Apts.)

* Resident House Officer, Johns Hopkins Hospital.

Bettman, Ralph Boerne—A. B. Williams 1910—Fellow Mayo Clinic, Rochester, Minn.; 1st Lieut. M. C.

Boehm, Julius Benjamin—S. B. St. Louis Univ. 1910—Res. Surg. Greenpoint Hosp. Brklyn.

Bogle, Kate Breckenridge (Mrs. S. R. Karpeles)—A. B. Goucher 1909—Cont. Surg. U. S. A.; Physician, Washington (1207 Columbia Rd.)

du Bray, Ernest Speers—A. B. Cincinnati 1910—Capt. M. C.

Brush, Nathaniel Hawley—A. B. 1909—Asst. Res. Psychiatrist; Capt. M. C.

Carroll, Francis Patrick—S. B. Trinity (Conn.) 1911—City Physician, Bridgeport, Conn.

Carter, David Wendel, Jr.—A. B. Southwestern 1909—1st Lieut. M. C.

Child, Dorothy—A. B. Bryn Mawr 1910; Lectr. Hygiene and Phys. to Women Students, U. of Kans. 1916-17—Amer. Red Cross, France.

Clark, Mildred (Mrs. P. W. Clough)—A. B. Wellesley 1910; R. H. O. 1914-15; Asst. Res. Phys. 1915-17—Jacobi Fellow; Instr. Med.

Colwell, Howard Spencer—S. B. Colgate 1910—Capt. M. C.

Connor, Charles Edward—A. B. Indiana 1910—Physician, Terre Haute, Ind. (1318 S. 4th St.)

Crawford, Robert Hope—S. B. Davidson 1910—Physician, Rock Hill, S. C.

Davis, Isaac—A. B. Harvard 1910—Physician, Pittsburgh (2031 Centre Av.)

Dodson, Ralph Moore—A. B. Oregon 1910—House Surg. Bellevue Hosp.; Capt. M. C.

Donaldson, John Calvert—Ph. B. Yale 1910—Instr. Anat. Univ. of Cincinnati.

Dornblaser, Harry Bright—A. B. Wittenberg 1907—Capt. M. C.

Downs, Chester Arthur—A. B. Oregon 1910—Physician, Portland, Ore. (297 Fargo St.); 1st Lieut. M. C.

Ducasse, Edmond Frederic—A. B. Washington 1910.—Medical Aid, French Army.

Duffy, William Core—A. B. Wake Forest 1910; Asst. in Pathol 1915-16; Asst. Res. Surg. 1916-18—1st Lieut. M. C.

Duncan, John Baxter—A. B. Mercer 1910—1st Lieut. U. S. Pub. Health Service, Nitro, W. Va.

Dunn, George R.—Ph. B. Hamline 1910; R. H. O. 1914-15—Asst. Res. Surg.

Eaton, Avis Chippewa—A. B. Wellesley 1909—Res. Surg. Royal Hosp. for Chldn. Edinburgh, Scotland.

Emrick, Marion W.—Ph. B. Franklin and Marshall 1910—Asst. Roentgenologist, Harrisburg Hosp. and Physician, Harrisburg, Pa.

Englar, Thomas Shepherd—A. B. Western Maryland 1910—Phys. Medford, Md.

Evans, Frank Alexander—A. B. Washington and Jefferson 1910; R. H. O. 1914-15—Asst. Res. Phys. and Asst. in Med.; Capt. M. C.

Fansler, Walter A.—A. B. Missouri 1911; Instr. Marquette Univ. 1914-15—Instr. Surg. U. of Minn.; Asst. City Phys. Minneapolis.

Fechtig, Allen Garthwright—A. B. Univ. of South 1910—1st Lieut. M. C.

***Fergusson, James Grant**—A. B. Stanford 1908—Interne, Roosevelt Hosp. N. Y.—**In action (in France), July* 14, 1916.

Fleming, LeRoy Newton—A. B. Miami 1910; Asst. in Surg. 1914-15; Asst. in Physiol. Harvard—Physician, Detroit (329 Hamilton Av.)

Flexner, Morris—A. B. Michigan 1910—R. H. O. 1914-15—Physician, Louisville, Ky. (948 S. 2d St.); Capt. M. C.

Frazee, Mary Louise—A. B. Goucher 1908—Asst. Phys. Bloomingdale Hosp. White Plains, N. Y.

Gardner, Harold Bearce—S. B. Grinnell 1910—Physician, Cresco, Ia.

Grave, Floyd—S. B. Carlton 1908—Teaching Fellow, U. of Minn. Minneapolis.

Hagan, Hugh Johnson—A. B. Washington and Lee 1910—Physician, Roanoke, Va.; Capt. M. C.

Hain, Raymond Fisher—S. B. Bucknell 1910—Asst. Res. Brady Clinic.

Hall, Raymond Confer—S. B. Wesleyan 1909—Interne, St. Ann's Hosp. and Phys. Anaconda, Mont.

Hampton, Henry Hunton—S. B. Tennessee 1903—Instr. Gynecol.; Res. Gynecol.

Harrell, Bryant Eugene—A. B. Randolph-Macon 1907—Asst. Res. Brady Clinic.

***Haupt, Walter Clark**—Ph. D. 1908—Asst. Phys. Butler Hosp. Providence, R. I. 1914-15; Asst. Neurol. Inst. of N. Y. 1915-16.—**June* 3, 1917.

Hodge, Mary Ashmun—A. B. Stanford 1903—Instr. in Clin. Med.; Dispensary Physician.

Hooper, Charles Warren—A. B. Kansas 1911—Asst. Prof. Resch. Med. Hooper Fndn. Univ. of Cal. San Francisco.

Huffman, Lyman Foster—S. B. Ohio Wesleyan 1910—Physician, Cleveland (306 Osborn Bldg.)

Hutchison, James Elder—A. B. Ohio State 1909—Physician, Hartford, Conn. (36 Pearl St.)

Ingraham, Ruth—A. B. Vassar 1907—Roentgenologist, Brooklyn Hosp. N. Y.

Jack, William David—A. B. Creighton 1908—Asst Res. Brady Clinic; Capt. M. C.

Jones, Walter Falke—A. B. Hamilton 1908—Physician, New York (40 E. 62d St.); 1st Lieut. M. C.

Keister, William Shirey—A. B. Roanoke 1907—Health Officer of Wise Co. Norton, Va.; 1st Lieut. M. C.

Kelly, Claude Currie—S. B. Davidson 1909—1st Lieut. M. C.

Ketcham, Clarence Searle—B. L. Rutgers 1910—1st Lieut. M. C.

King, John Theodore, Jr.—A. B. Princeton 1910; R. H. O. 1914-15; Asst. Res. Phys. 1915-16—Instr. in Clin. Med.; Physician, Balt.; 1st Lieut. M. C.

***Krake, Leigh Seward**—A. B. Nebraska 1907—**July 9, 1914.*

McGill, Caroline—Missouri (A. B. 1904; Ph. D. 1908)—Pathologist, Murray Hosp. Butte, Mont.

Martin, Floyd August—Missouri (A. B. 1911, Instr. 1914-15); Asst. Supt. State Hosp. No. 1, Fulton, Mo. 1915-16—Lab. Diag. Detroit Clin. Lab.

Marvel, Norman Clyde—A. B. 1910—Clin. Asst. Hosp. for Rupt. & Crip. and Phys. N. Y.

Meyer, Jerome—S. B. Alabama 1908—Pediatrician, Tenn. Coal & Iron Co. Birmingham, Ala.; 1st Lieut. M. C.

Mosiman, Roscoe E.—S. B. Huron 1910—Asst. Res. Surg. Lakeside Hosp. Cleveland.

Moyle, Robert Davie—A. B. McMaster 1908—Capt. C. A. M. C. Toronto (83 Aisquith Av.)

Ormond, John Kelso—A. B. Princeton 1906; R. H. O. 1914-15—Asst. in Surg. Ford Hosp. Detroit; Capt. M. C.

Plumer, John Shaffer—S. B. Pittsburgh 1909—Asst. Path. Singer Mem. Resch. Lab. Pittsburgh; P. A. Surg. U. S. N.

Redelings, Leslie Hall—S. B. Northwestern 1909; R. H. O. 1914-15—Fellow, Mayo Clinic, Rochester, Minn.; 1st Lieut M. C.

Reichard, John Davis—A. B. Trinity (Conn.) 1910—Asst. Surg. U. S. P. H. S. Marine Hosp. Balt.

Reinhard, Ferdinand Oscar Wolfgang—A. B. 1908—Physician, Balt. (1400 Linden Av.); 1st Lieut. M. C.

Robinson, Aaron—A. B. 1910—Asst. Surg. U. S. N. Washington.

Rockwood, Ethel May—S. B. Simmons 1909—Phys. Hosp. Cottages, Baldwinville, Mass.

Rotholz, Alma Sophia—A. B. Smith 1910; R. H. O. 1914-15; Asst. in Med. 1915-16.—Asst. Disp. Phys.; Asst. Clin. Med.; A. R. C., France.

Saltzstein, Harry—Ph. B. Yale 1910—Interne, Mt. Sinai Hosp. N. Y.; 1st Lieut. M. C.

Sewell, John Holt—E. E. Texas 1908—Physician, Ft. Worth, Tex.

Shaffer, Floyd Elmer—A. B. Lebanon Valley 1910; Res. Phys. German Hosp. Phila. 1915-17.—Asst. Surg. Bethl'm Steel Co., So. Bethlehem, Pa.

Sherrick, Joseph Leslie—A. B. Monmouth 1908; A. M. Yale 1910—Physician, Monmouth, Ill.

Sherry, Leroy Briggs—A. B. Illinois 1910—Res. Surg. Lakeside Hosp. Cleveland; 1st Lieut. M. C.

Silvester, Richard Lee—S. B. Md. Agric. 1909—Resident, Hosp. for Women, Balt.; Asst. Surg. U. S. N.

Stubbs, Landon Elwood—A. B. Randolph-Macon 1910—Physician, Gloucester, Va.

Szymanski (Schmitt), John Joseph—A. B. St. John's (Brooklyn) 1910—Physician, Passaic, N. J.; 1st Lieut. M. C.

***Taylor, Herbert Douglas**—A. B. St. John's 1910; Prof. Bacteriol. and Pathol. Wake Forest Coll. 1914-15; Assoc. Path. and Bact. Rockefeller Inst. N. Y.; 1st Lieut. M. C.—**Oct. 8, 1918.*

Utzinger, Otto E.—A. B. Stanford 1910—Surgeon, Ithaca, N. Y.

Vanneman, Joseph Stephens—Ph. B. Dickinson 1910—Res. Phys. Princeton Univ. Infirm.; 1st Lieut. M. C.

Van Valzah, Laurie—A. B. Oregon 1910—Major, M. C.

Venable, John Manning—A. B. North Carolina 1910—Surg. San Antonio, Tex.; 1st Lieut. M. C.

Webb, Joseph—A. B. Wittenberg 1910; R. H. O. 1914-15—Interne, Stanford Univ. San Francisco; 1st Lieut. M. C.

Webb, Roscoe Clayton—A. B. Minnesota 1911—Physician, N. Y.; 1st Lieut. M. C.

Webster, Jerome Pierce—A. B. Trinity (Conn.) 1910; R. H. O. 1914-15—1st Lieut. M. C.

Wilson, Harry Eugene—A. B. St. John's 1910—Res. Church Home, Balt.

Wolff, Sylvain Beer—S. B. La. State 1910—Physician, Opelousas, La.

Wood, Evans Beauchamp—S. B. Ala. Polytech. 1907—Prof. Therap. Emory Univ. and Physician, Atlanta, Ga. (505 Candler Bldg.); 1st Lieut. M. C.

Woods, Alan Churchill—A. B. 1910—Asst. Dept. Resch. Med. Ophthal. U. of Penna.; Capt. M. C.

Wynne, Herbert Maxwell Nash—S. B. Bethany 1906; R. H. O. 1914-15; Res. Gynecol. & Instr. in Gyn. 1915-18—1st Lieut. M. C.

Zadek, Isadore—S. B. Ala. Polytech. 1910; R. H. O. 1914-15—Res. Orthopedist; 1st Lieut. M. C.

Smith, John Frederick—A. B. Lake Forest 1907—Interne, Bellevue Hosp. N. Y. [*Degree conferred Feb.* 22, 1915.]

Class Secretary — John T. King, Jr., 1425 Eutaw Pl.
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1915

Adair, Frank Earl—A. B. Marietta 1910—House Surg. New York Hosp.; 1st Lieut. M. C.

Andrew, Harvey Montreville—S. B. Waynesburg 1911—Physician, Hartford, Conn.; 1st Lieut. M. C.

Armstrong, Charles—S. B. Mt. Union 1910—Asst. Surg. U. S. P. H. S.

Atchley, Dana Winslow—S. B. Chicago 1911; R. H. O. 1915-16—Instr. Med. Coll. P. and S. N. Y.; Phys. Presby. Hosp. N. Y.

Auil, John—A. B. Virginia 1911—Physician, Kansas City (900 Rialto Bldg.)

Bacon, Arthur Maynard—A.B. West. Md. 1911—Physician, Ardmore, Okla.; 1st Lieut. M. C.

Baldwin, John Cook—S. B. Hamilton 1910—Asst. Disp. Ped.; Physician, Balt. (4803 York Rd.)

Batchelor, Marjorie Dietz—A. B. Wellesley 1907; Instr. Med. 1915-18—Palmerton Hosp. Pa.

Batchelor, Roger Putnam—A. B. Wisconsin 1911; Instr. & Asst. Res. Surg. 1915-18—Surg. in chief, Palmerton Hosp. Pa.

Bates, Harold Edwards—A. B. Oregon 1910—Physcian, London Hosp., Eng.

Bean, Leo Chapman—Ph. B. Ohio Univ. 1911; Asst. Pathol. Wash. Univ. 1917-18—Instr. Med.

Belden, Louis de Keyser—S. B. North Carolina 1910—Interne, Roosevelt Hosp. N. Y.; 1st Lieut. M. C.

Braunlich, George—Ph. B. Chicago 1910—Phys. Davenport, Iowa; 1st Lieut. M. C.

Burket, Walter C.—S. B. Chicago 1911; A. B. Baker, 1912; R. H. O. 1915-16; Asst. Res. Surg. 1916-17—1st Lieut. M. C.

Christopher, Frederick—S. B. Northwestern 1911—House Surg. New York Hosp.; 1st Lieut. M. C.

***Clark, Admont Halsey**—A. B. Oberlin 1910; Instr. Assoc. Assoc. Prof. Pathol. 1915-18—**Oct.* 13, 1918.

Clarke, Jefferson Hamer, Jr.—A. B. Haverford 1911 — Interne, Samaritan Hosp.; Instr. Med. Temple Univ. Philadelphia.

Clausen, Samuel Wolcott—A. B. Williams 1910; R. H. O. 1915-16; Asst. Med. 1916-17—Instr. Ped. Wash. Univ. St. Louis; 1st Lieut. M. C.

Clough, Harry Duffield—A. B. Brown 1908—Interne, R. I. State Hosp. Providence.

Crawford, Rena—Ph. B. Chicago 1903; A. M. Columbia 1910—Med. Officer, Gbraylochart Hosp. Edinburgh, Scot.

Cunningham, Robert Sydney—S. B. and A. M. Davison 1911—Instr. Anat.; 1st Lieut. M. C.

Dayton, Arthur Bliss—Ph. B. Yale 1911; Fellow, Pathol. 1915-16—Physician, Naugatuck, Conn.; 1st Lieut. M. C.

Delatour, Beeckman J.—S. B. Amherst 1911—Interne, St. Luke's Hosp. N. Y.

Derr, Woods Frederick—A. B. Bucknell 1911—Physician, Renovo, Pa.

Doherty, Drayton Howard—A. B. Howard 1910—Physician, Selma, Ala.; 1st Lieut. M. C.

Elmendorf, DuMont F.—A. B. Rutgers 1911; R. H. O. 1915-16—Asst. Res. Orthoped. Surg.; 1st Lieut. M. C.

Fallas, Roy Edwin—A. B. Stanford 1911; R. H. O. 1915-16—Surg. Los Angeles, Cal;. Capt. M. C.

Faust, Otto Alois—Ph. D. Union 1911—Physician, Albany, N. Y.; 1st Lieut. M. C.

Gasser, Herbert Spencer — Wisconsin (A. B. 1910, Instr. 1915-16)—Assoc. Physiol. Washington Univ. St. Louis.

von Glahn, William Carson — S. B. Davidson 1911—Asst. Pathol.

Glass, Samuel James, Jr.—S. B. Pittsburgh 1911—Assoc. Surg. and Chf. Surg. O. P. D. Presb'n Hosp. Pittsburgh; 1st Lieut. M. C.

Gober, William Mayes—A. B. Georgia 1909—Interne, M. E. Hosp. Brooklyn.

Goddard, Calvin Hooker—A. B. 1911—Major, M. C.; Patchogue, N. Y. (Mulford St.)

Griffith, Lewie Muller—S. B. South Carolina 1908—Surgeon, Asheville, N. C.; 1st Lieut. M. C.

Griffith, Roy—S. B. Georgia 1911—Physician, West Orange, N. J.

Haden, Russell Landram—A. B. Virginia 1910; R. H. O. 1915-16—Dir. Lab. Ford Hosp. Detroit; 1st Lieut. M. C.

Happ, William Morris—A. B. Georgia 1911—1st Lieut. M. C.

Heddens, Vernon Offutt—A. B. Missouri 1910—Interne, New York Hosp.

Houck, Frank M.—Ph. B. Dickinson 1910—Supt. Cragmor Sanatorium, Colo. Spgs. Colo.

Irwin, Stewart Vernon—S. B. California 1911; R H. O. 1915-16—Res. Physician, Private Wards.

Joseph, Morris—S. B. New York Univ. 1911—Phys. Passaic, N. J. (30 Lexington Av.); 1st Lieut. M. C.

McLean, McDugald Keener—A. B. Southwestern 1908; B. Sc. Oxford 1913—Physician, N. Mex. Cottage San. Silver City.

MacRae, Floyd Wilcox, Jr.—Ph. B. Yale 1911—Physician, Atlanta (1014 Peachtree St.); Capt. M. C.

McVay, James Robert—A. B. Missouri 1912—Mayo Clinic, Rochester, Minn.; 1st Lieut. M. C.

Makel, Hertel Philip—A. B. 1911—1st Lieut. M. C.

Mason, Verne Rheem—S. B. California 1914; R. H. O. 1915-16—1st Lieut. M. C.

Maxcy, Kenneth Fuller—A. B. George Washington 1911; R. H. O. 1915-16; Asst. Res. Ped'n 1915-17—Asst. Res. Phys. Ford Hosp. Detroit; Capt. M. C.

Melen, David Ralph—S. B. Rochester 1911—Interne, Gen'l Hosp. Rochester, N. Y.

Mitchener, James Samuel—S. B. Davidson 1909—Physician, Kinston, N. C.

***Morgan, Harold Sydney**—A. B. Stanford 1912—1st Lieut. M. C.—**In France, May,* 1918.

Moore, Thomas Verner—Ph. D. Catholic Univ. 1903—Assoc. Prof. Psychol. Catholic Univ. Washington.

Morison, Rufus Ayers—Va. Mil. Inst. 1905—Rockefeller Hosp. N. Y.

Murray, John Gardner, Jr.—A. B. 1911; R. H. O. 1915-16—Res. Obstet; Disp. Obstet.; Instr. Obstetrics; Capt. M. C.

Musser, Harvey Huston—A. B. 1911; R. H. O. 1915-16; Asst. Res. Surg. 1916-17—Capt. M. C.; Phys., Balt. (1007 Madison Av.)

Newcomer, Harry Sidney—A. B. Wisconsin 1909—P. A. Surg. U. S. N. R. Washington.

Peightal, Thomas Christian — Ph. B. Franklin and Marshall 1911—House Phys. Roosevelt Hosp.; 1st Lieut. M. C.

Preston, George Hinrichs—A. B. 1911; R. H. O. 1915-16—1st Lieut. M. C.

Putnam, Mary—A. B. Bryn Mawr 1910—R. H. O.

Rhodes, George Kremer—S. B. California 1912; R. H. O. 1915-16 — 1st Lieut. M. C.

Richards, Davis Neeper—A. B. Wooster 1911—Res. Gyne. Royal Victoria Hosp. Montreal.

Richards, Esther Loring—A. B. Mt. Holyoke 1910; R. H. O. 1915-16—Asst. Res. Phys. Phipps Psych. Clinic.; Instr. Psychiatry.

Rivers, Thomas Milton—A. B. Emory 1909; R. H. O. 1915-16; Instr. Pediatrics 1916-18—1st Lieut. M. C.

Rosenthal, Gilbert White—A. B. 1910; R. H. O. 1915-16—Capt. M. C.

Rothschild, Lippman Levy—A. B. Yale 1910—Asst. Phys. Homewood Sanatorium, Guelph, Ont.

Sohnack, Adolph George—A. B. Stanford 1910; A. M. Yale 1911—Physician, San Francisco.

Scott, Katherine Julia—A. B. Wellesley 1910—Instr. Anat. Univ. of Cal. Berkeley.

Shellito, Judd Campbell—S. B. Princeton 1911—Physician, Independence, Ia.; 1st Lieut. M. C.

Shewbrooks, Daniel Marsh—A. B. Middlebury 1909; Asst. Med. Univ. of Minn 1916-17—Major M. C.; Instr. U. S. Mil. Acad. West Point.

Slater, Harvey M.—A. B. Oregon 1911—Physician, Minneapolis; Capt. M. C.

Smith, Daniel Clarke Wharton 2nd—Ph. B. Yale 1911; R. H. O. 1916-17—Physician, Balt.; Capt. M. C.

Smith, Lucius Ernest—S. B. Kentucky Univ. 1911—West African Miss'n, Batanga, Cent. W. A.

Smith, L. Howard—S. B. Huron 1910—Asst. Surg. U. S. P. H. S. Norfolk, Va.

Swan, Mary Hannah—A. B. Mt. Holyoke 1905—Pathologist Central Hosp. Ill. C. R. R. Chicago.

Sydenstricker, Virgil Preston Willis—A. B. Washington and Lee 1910; R. H. O. 1915-16; Asst. Med. 1916-17—1st Lieut. M. C.

Tappan, Benjamin—A. B. 1911—Disp. Pedn.; Phys., Balt. (4200 Greenway)

Thomas, William Clark—A. B. Emory 1911—Major M. C.

Trueblood, Donald Vaughn—A. B. Washington Univ. 1911; R. H. O. 1915-17—Res. Surg. Minor Hosp. Seattle, Wash.; Capt. M. C.

Tucker, Prescott Stearns—A. B. George Washington 1911; R. H. O. 1915-16—1st Lieut. M. C.

Turner, John Calvin, Jr.—S. B. Davidson 1908—Interne, St. Luke's Hosp. N. Y.; 1st Lieut. M. C.

Turner, Victor Roland—S. B. Denison 1909; A. M. Harvard 1911—1st Lieut. M. C.

Walker, John Edward—S. B. Ala. Polytech. 1910—Major, M. C.

Warner, Charles Luther—A. B. 1911—Asst. Surg. U. S N. R., Ft. Lyon, Colo.

Werner, Roy Gillilan—A. B. Ohio State 1909—Physician, Parkersburg, W. Va.

Wharton, Lawrence Richardson—Ph. B. Hiram 1907; R. H. O. 1915-16—Asst. Res. Gyne.; 1st Lieut. M. C.

Whisman, Henry Stafford—S. B. California 1911—Res. Phys. Univ. of Cal. Hosp. Berkeley; 1st Lieut. U. S. N. R.

Williams, Louis Hicks—A. B. North Carolina 1911—Asst. Surg. U. S. N. R.

Wix, Edward Blaine—Ph. B. Yale 1911—Physician, Hoboken, N. J. (1300 Garden St.)

Woo, Sien-ming (Hu Hsüan-ming)—A. B. St. John's (Shanghai) 1910—Phys. Shanghai, China (5 Quinsan Gardens).

Chisolm, James Julian—A. B. Princeton 1911—Asst. Res. Laryng.; Asst. in Laryng.; 1st Lieut. M. C. [*Degree conferred Feb.* 22, 1916.]

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Class Secretary—Benjamin Tappan, 4200 Greenway, Balt.

1916

Anderson, William Willis—A. B. Georgia 1911—Res. Path. City Hosp. Bay View; Asst. Pathol.

Applebaum, Herman S.—A. B. 1913—Interne, Mt. Sinai Hosp. Cleveland, O.

Bacon, Emily Partridge—A. B. Wilson 1912—Res. Lankeman Hosp. Phila.

Barclay, Irvin C.—S. B. Knox 1912—

Barlow, Bryan Anderson—S. B. Alabama 1912—Physician, Ft. Wayne, Ind.

Bean, Harold Cedric—A. B. Oregon 1912; R. H. O. 1916-17—Res. Phys. New Haven Hosp. Conn.; 1st Lieut. M. C.

Blanco, Pio—S. B. Washington and Jefferson 1912; Fellow, Mayo Clinic 1917-18—Hosp. Rupt. & Crippled, N. Y.; 1st Lieut. M. C.

Brock, Sam—A. B. Georgia 1911—Interne, Lakeside Hosp. Cleveland; Capt. M. C.

Bullard, H. Hays (F)—A. B. Missouri 1908; Ph. D. Tulane 1912—Assoc. Pathol.; Res. Pathol.

Burkholder, Harry Jackson—S. B. Monmouth 1912—Interne, Walker Hosp. Evansville, Ind.

Carden, John Joseph, Jr.—S. B. California 1912—Interne, City Hosp. Bridgeport, Conn.

Christman, Paul William—S. B. California 1912; Asst. Pathol. 1917-18—1st Lieut. M. C.

Clark, Seymour Garland—Ph. B. Emory 1912—Interne, M. E. Hosp. Brooklyn; 1st Lieut. M. C.

Conrad, Henry Brown—A. B. Wake Forest 1912; R. H. O. 1916-17—Asst. Res. Ped'n.; Asst. Surg. U. S. N. R. Washington.

Cummings, William Walter—A. B. Brown 1912—Interne, R. I. Gen'l Hosp. Providence; 1st Lieut. M. C.

Darrow, Frank Irons—S. B. North Dak. Agr. 1912—1st Lieut. M. C.

Disbrow, Harold Ball—A. B. Princeton 1911—1st Lieut. M. C.

Eidson, Joseph Pugh—A. B. Miami 1912; R. H. O. 1916-17—1st Lieut. M. C.

Erickson, Reuben Johann—A. B. Knox 1911—Phys. Galesburg, Ill.; 1st Lieut. M. C.

***Etheridge, James Allan**—A. B. Georgia 1912; R. H. O. 1916-17. **Oct.* 7, 1918.

Fairbank, Ruth Eldred—A. B. Illinois 1911; R. H. O. 1916-17—Asst. Psychiatry; Asst. Res. Psych.

Felton, Lloyd Derr—A. B. Wooster 1910—Instr. Bacteriol.; Surg. U. S. A.

Fielder, Roy Lamar—A. B. and S. B. Emory and Henry 1912—Interne, Southern Pacific Hosp. San Francisco; Asst. Surg. U. S. N. R.

Finney, William Parker, Jr.—A. B. Princeton 1908; Rockefeller Fellow, 1916-18—1st Lieut. M. C.

Fuller, Robert Guy—S. B. La. State 1907—Res. H. A. Kelly Hosp. Balt.

Gill, Hugh Clinton Fiske—S. B. Maryland Agr. 1912—1st Lieut. M. C.

Greenwood, Adolphus Barte—A. B. North Carolina 1910—Serologist. N. C. State Lab. Hyg. Raleigh.

Grempler, Walter Edward—A. B. 1912—Interne, Univ. of Minn. Hosp. Minneapolis; 1st Lieut M. C.

Haessler, Ferdinand Herbert—A. B. Wisconsin 1914—Instr. Univ. of Louisville and Res. Pathol. Louisville City Hosp. 1917-18; Rockefeller Inst. N. Y.—1st Lieut. M. C.

Hallock, David Horace—A. B. Hamilton 1912—Interne, N. Y. Hosp.; 1st Lieut. M. C.

Hamman, Howard Harrison—S. B. Allegheny 1912—Interne, Church Home and Infirm. Balt.

Handy, Margaret Irving—A. B. Goucher 1911—Asst. Res. Phys.

Harmon, Charles Maxwell—A. B. Lake Forest 1912—Interne, Church Home and Infirm. Balt.; 1st Lieut. M. C.

Harris, John Warton—A. B. North Carolina 1911; R. H. O. 1916-17—Res. Obstn.; Instr. Obstet.

Harrop, George Argale, Jr.—A. B. Harvard 1912; R. H. O. 1916-17—Asst Res. Phys.; Asst. Med.

Heidt, Thomas Johannes—A. B. Missouri 1910—Clin. Asst. Psychiatric Inst. Ward's Island, N. Y.; Attend. Phys. Dept. of Psycho-Pathol. Cornell; 1st Lieut. M. C.

Herpel, Frederick Karl—A. B. Allegheny 1912—Interne, Hartford Hosp. Conn.

Hicks, Elijah Maxie, Jr.—A. B. Furman 1912—Interne, Jefferson Surg. Hosp. Roanoke, Va.

Hood, Robert Carhart—A. B. Washington and Lee 1912—Interne, Post-Graduate Hosp. N. Y.; 1st Lieut. M. C.

Hundley, Jack Mason—A. B. St. John's 1912—1st Lieut. M. C.

Jenks, Mildred—A. B. Wellesley 1911—Res. Phys. Hackett Med. Coll. & Hosp. Canton, China.

Kinne, Arthur Lyman—A. B. Dartmouth 1912—Res. Lying-In Hosp. Boston.

Lawrence, Joseph Sell—A. B. Franklin and Marshall 1904; Asst. 1916-17—Bacteriol. Lab. State Dept. Health, Albany; 1st. Lieut. M. C.

Lena, Hugh Francis—A. B. Dartmouth 1912—R. H. O. Boston City Hosp.; Asst. Surg. U. S. N.

Lincoln, Asa Liggett—A. B. Elon 1910—Interne, Post-Grad. Hosp. N. Y.; 1st Lieut. M. C.

***Long, John Gabriel**—A. B. Franklin and Marshall, 1912—1st Lieut. M. C.—**Oct.* 24, 1918.

Lovett, Irving Kennedy—Ph. B. Lafayette 1912; R. H. O. 1916-17 — 1st Lieut. M. C.

McCafferty, Lawrence Kinsman—A. B. Kenyon 1912—Asst. Surg. U. S. N. Washington.

McCarthy, Charles Lee—S. B. Princeton 1912; R. H. O. 1916-17—Passed Asst. Surg. U. S. N.

McGuire, Patrick Francis—A. B. Rock Hill 1909; R. H. O. 1916-17—1st Lieut. M. C.

Maas, Edith Helen (Mrs. A. L. Lincoln)—Lacey Springs, Va.

Major, Richard S.—A. B. Wofford 1909—Interne, Allegheny Gen'l Hosp. Pittsburgh; Capt, M. C.

Martin, Walter Brambiette—S. B. Virginia Polytech. 1909; R. H. O. 1916-17—1st Lieut. M. C.

Miller, Milo Kirk—A. B. Illinois 1912; R. H. O. 1916-17—Asst. Surg. U. S. N.

Mitchell, William Thomas, Jr.—S. B. Pittsburgh 1912—Phys. Pittsburgh.

Moore, Joseph Earle—A. B. Kansas 1914; R. H. O. 1916-17—1st Lieut. M. C.

Mullin, John Henry—S. B. Princeton 1912—Chf. Res. Phys. Delaware Hosp. Wilmington; 1st Lieut. M. C.

Murchison, David Reid—A. B. North Carolina 1912—Interne, Ford Hosp. Detroit.

Pfitsch, Alfred Jr.—A. B. Western Maryland 1912—Phys. Amer. Luth. Miss. Hosp. Rentachintala, S. India.

Pritchett, Charles Bernard—A. B. Washington and Lee 1912—Interne, St. Agnes Hosp. Balt.

Reese, Sidney O., Jr.—S. B. Nebraska 1913; R. H. O. 1917-18—1st Lieut. M. C.

Reid, Horace Withers—A. B. Central Univ. (Ky.) 1911; R. H. O. 1916-17—1st Lieut. M. C.

Reynolds, Fred Dawson—S. B. Alabama 1912—Res. Phys. St. Francis Hosp. Pittsburgh; Capt. M. C.

Reynolds, Lawrence—A. B. Alabama 1912—1st Lieut. M. C.

Roberts, Francis Errett—A. B. Bethany 1912; R. H. O. 1916-17—Asst. Res. Gyne.; 1st Lieut. M. C.

Sevier, Charles Edwin—S. B. Vanderbilt 1912; R. H. O. 1916-17—Physician, Brownsville, Tex.

Sevier, John Alston—S. B. Vanderbilt 1912—Resch. Staff, Trudeau Sch. Saranac, Lake, N. Y.; 1st Lieut. M. C.

Smith, Daniel Glen—S. B. Union 1912; R. H. O. 1916-17—Physician, Schenectady, N. Y.; 1st Lieut. M. C.

Smith, Taylor Bivens—A. B. Marietta 1912—Interne, Univ. of Minnesota Hosp. Minneapolis.

Southard, William White—A. B. Stanford 1910—1st Lieut. M. C. Washington.

Speed, James Spencer—A. B. Virginia 1912—Interne, Jefferson Hosp. Roanoke, Va.; 1st Lieut. M. C.

Stifel, Richard Ernest—A. B. Harvard 1912—Capt. M. C.

Stoddard, James Kent—A. B. Princeton 1912—Physician, Phila. (7930 Crefeld St., Chestnut Hill); 1st Lieut. M. C.

Sutton, Alan Callender—A. B. 1912; R. H. O. 1916-17—Asst. Res. Phys. in Chg. Med. Disp.; 1st Lieut. M. C.

Sutton, Thomas Lynn—A. B. Michigan 1912; R. H. O. 1916-17—1st Lieut. M. C.

Thomas, Henry M., Jr.—S. B. Haverford 1912—Interne, Mass. Gen'l Hosp, Boston; 1st Lieut. M. C.

Warinner, Junius Ernest, Jr.—A. B. Richmond 1912—Physician, Richmond, Va.; 1st Lieut. M. C.

Wheeler, Theodora (Mrs. T. W. Finney) A. B. Vassar 1911—Research Asst. Children's Bureau, Washington.

White, Samuel Augustus—S. B. South Carolina 1912—1st Lieut. M. C.

Wislocki, George Bernays—A. B. Washington Univ. 1912; Asst. Anatomy 1916-17—Dept. Surg. Harvard; 1st Lieut. M. C. Washington.

Zimmerman, Ernest Ludwig—A. B. Dartmouth -1912—Disp. Phys. Dept. L; Asst. Clin. Med.

Briggs, Rowland Sill—S. B. California 1915—Physician, Sacramento, Cal. [*Degree conferred Feb.* 22, 1917.]

Henry, George William—A. B. Wesleyan 1912—Asst. Res. Phys. Bloomingdale Hosp. White Plains, N. Y. [*Degree conferred Feb.* 22, 1917.]

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1917

Amberson, James Burns, Jr.—Ph. B. Lafayette 1913—Asst. Phys. Loomis San. N. Y.

Anderson, James Kerr.—A. B. Washington and Jefferson 1913—Interne, City Hosp. Minneapolis; 1st Lieut. M. C.

Anderson, Walter Thomas—A. B. Washington and Jefferson 1913; R. H. O. 1917-18—1st Lieut. M. C.

Baird, John Herman—A. B. Kenyon 1913; R. H. O. 1917-18—1st Lieut. M C. New York.

Banks, Horace McMurran—A. B. Washington and Lee 1913—Physician, Shepherdstown, W. Va.; 1st Lieut. M. C.

Belcher, Burton Elias—S. B. Florida State 1905—Asst. Surg. U. S. N.

Blake, William Campbell—S. B. Howard Coll. 1913—Interne, Post-Grad. Hosp. N. Y.; Asst. Surg. U. S. N.

Blanchard, Irene M.—A. B. Michigan 1898—Interne, City Hosp. Minneapolis.

Brady, Leo—A. B. 1913—R. H. O.; 1st Lieut. M. C.

Brosius, William Lewis, Jr.—A. B. Missouri 1915; R. H. O. 1917-18—1st Lieut. M. C.

Brown, G. Bedford, Jr.—S. B. Georgetown 1912, and Yale, 1913—Detroit, Mich.

Bullard, Hugh Max—S. B. Bucknell 1913—Interne, City Hosp, Brooklyn; 1st Lieut. M. C.

Callander, Curie Latimer—A. B. Harvard 1913; R. H. O. 1917-18—1st Lieut. M. C.

Carroll, Alice Berry (Mrs. E. K. Marshall, Jr.)—S. B. Ohio State 1911—Washington, D. C. (3406 Rodman St. N. W.)

Carter, John Meynard—A. B. Missouri 1914—Interne, Harper Hosp. Detroit.

Clark, George Arthur—S. B. Hamilton 1913—1st Lieut. M. C.

Clark, Hallie Marguerite—S. B. Syracuse 1912—Asst. Res. Phys.; Asst. Med.

Davidson, Herman Porter—A. B. Washington and Lee 1913—Interne, New Haven Hosp. Conn.; 1st Lieut. M. C.

Davison, Wilburt Cornell—A. B. Princeton 1913; Oxford (Rhodes Scholar 1913-16, A. B. 1915, B. Sc. 1916)—1st Lieut. M. C.

Doege, Karl Herman—S. B. Wisconsin 1913—Interne, City Hosp. Balt.; 1st Lieut. M. C.

Doub, Howard Philip—A. B. Western Md. 1913—Phys. Detroit (1429 Whitney Bldg.)

Fear, Raymond Durstan—A. B. Hamilton 1913; R. H. O. 1917-18—Asst. Surg. U. S. N. R. Naval Hosp. N. Y.

Fowle, Hubert William—A. B. Williams 1910.

Frishman, Morris—S. B. Pittsburgh 1913—Interne, West Pa. Hosp. Pittsburgh; 1st Lieut. M. C.

Galley, Herman Anderson—A. B. St. John's 1913—1st Lieut. M. C.

Gamble, Thomas Owen—S. B. Alabama 1912—R. H. O.

Gay, Leslie Newton—Ph. B. Lafayette 1913—Interne, Mass. Gen'l. Hosp. Boston; 1st Lieut. M. C.

Groover, Gordon Lewis, Jr.—A. B. Washington and Lee 1912—Interne, City Hosp. Bayview, Balt.; 1st Lieut M. C.

Guy, Ruth Alline—A. B. Barnard 1912; Asst Bacteriol. 1917-18.

Hardy, George Edward Webb, Jr.—A.B. 1913—Interne, Union Prot. Infirm. Balt.; Capt. M. C.

Hartman, Frank Wilbur—A. B. Knox 1913—Asst. Surg. U. S. N. Washington.

Hoffman, Robert Val.—A. B. St. John's 1913—Interne, Ford Hosp. Detroit; 1st Lieut. M. C.

Hohman, Leslie Benjamin—A. B. Missouri 1912; R. H. O. 1917-18—1st Lieut. M. C.

Howard, Sarah Ernestine—A. B. Wellesley 1911; R. H. O. 1917-18—Asst. Res.; Asst. Med.

Jackson, Waddie Pennington—A. B. Randolph-Macon 1910—Asst. Surg. U. S N. Washington.

Jacobs, Louis Llewellyn—A. B. 1913—Interne, Hebrew Hosp. Balt.; 1st Lieut. M. C.

Janney, John Hall, Jr.—S. B. Earlham 1913—Capt. M. C.

Johnson, Robert Wilkinson, Jr.—A. B Princeton 1912—1st Lieut. M. C.

Ketzky, Joseph W.—S. B. Ala. Polytech. 1912—Externe, Medicine; 1st Lieut. M. C.

King, Merle William—A. B. Allegheny 1908—Asst. Res. Surg. Hosp. for Women, Balt.

Koch, John Christian—S. B. Georgia 1904—Interne, Ford Hosp. Detroit.

Kolls, Alfred C.—S. B. Wisconsin 1914—Asst. Pharmacol.; Capt. M. C.

Linden, Harry—A. B. 1912—Interne St. Agnes Hosp. Balt.

Linthicum, Frederick Hamilton—A. B. Loyola 1912; R. H. O. 1917-18—Asst. Laryngol.; 1st Lieut. M. C.

Luckett, Coen L.—A. B. Univ. of Ill. 1914—1st Lieut. M. C.

McCartney, James Shearer, Jr.—A. B. Washington and Jefferson 1913—Interne, St. Francis Hosp. Pittsburgh; 1st Lieut. M. C.

McGauley, Frederick Francis—S. B. Union 1912; R. H. O. 1917-18—1st Lieut. M. C.

McMeen, Claude Vincent—Ph. B. Dickinson 1913—R. H. O.; 1st Lieut. M. C.

McNeal, Morley Daniel — A. B. Iowa 1913—R. H. O.; 1st Lieut. M. C.

Mann, Hubert Melville — A. B. Union 1913—1st Lieut. M. C.

Marshall, Eli Kennerly, Jr. — S. B. Charleston 1908; Ph. D. 1911—Assoc. Prof. Pharmacol.; Capt. M. C. Washington.

Martzloff, Karl Henry—A. B. Oregon 1913—Asst. Pathol.; 1st Lieut. M. C.

Merritt, Katharine Krom—A. B. Vassar 1908—Interne, Children's Hosp. St. Louis, Mo.

Micklethwaite, Gilbert Richard—S. B. Ohio Univ. 1913—1st Lieut. M. C.

Miller, Frederick A.—A. B. St. John's 1912—Field Director, Rockefeller Foundation.

Moise, Theodore Sidney, Jr. — A. B. Georgia 1913—R. H. O.; 1st Lieut. M. C.

Nicholson, Hubert Maurice—S. B. Oklahoma 1912—Interne, Royal Victoria Hosp. Montreal.

Novak, Edward—A. B. 1913—R. H. O.; 1st Lieut. M. C.

Payne, Louis Ernest, Jr.—A. B. St. John's 1912—Interne, Soldiers' Home, Washington.

Pulford, DeLos Schuyler, Jr.—S. B. Trinity (Conn.) 1912—Interne, Ford Hosp. Detroit.

Reber, Ralph Louis — Ph. B. Franklin and Marshall 1913—Interne, Church Home and Infirm. Balt.

Rice, John L.—S. B. Wesleyan 1912—Interne, Public Health Board (Rockefeller Fndn.) San Jose, C. R.

Riggin, Irl Cephas—A. B. Western Md. 1913—Interne, Soldiers' Home, Washington; 1st Lieut. M. C.

Sanger, Bertram Julian—A. B. Texas 1913; R. H. O. 1917-18—1st Lieut. M. C.

Schultz, Edwin William—S. B. Winona 1913; A. B. Michigan 1914—Major, O. R. C. Germany.

Sharp, Robert G.—California (S. B. 1911, Ph. D. 1914)—Res. Phys. Boston Free Disp.

Shearer, Joseph Pardoe—S. B. Bucknell 1913—1st Lieut. M. C.

Sherrill, James Winn — A. B. Baylor 1913—1st Lieut. M. C. Washington.

Shipton, George Marsden—A. B. Williams 1913—Res. Surg. Roosevelt Hosp. N. Y.; 1st Lieut. M. C.

Shulman, David Nathaniel—A. B. 1913—Tucson, Ariz.

Smith, Eben Elliott—S. B. Moore's Hill 1913—Asst. Surg. U. S. N.

Sosman, Merrill Clary—A. B. Wisconsin 1913—Interne, Soldiers' Home, Washington; 1st Lieut. M. C.

Staehle, Richard Henry—S. B. Princeton 1913—Interne, Newark (N. J.) City Hosp.; 1st Lieut. M. C.

Stafford, Frank William John — A. B. Michigan 1914—Physician, Detroit (Smith Bldg.); 1st Lieut. M. C.

Stewart, Robert Bond—Toronto (A. B. 1905, A. M. 1906, B. Sc. 1909)—Interne, Presbyterian Hosp. Phila.

Stifel, John Louis—A. B. Harvard 1913—Physician, Pittsburgh (125 Dithridge St.); 1st Lieut. M. C.

Sturgis, Cyrus Cressy—S. B. Washington 1913—Interne, Brigham Hosp. Boston.

Summers, William Shakespeare — A. B. and S. B. Missouri 1914—Detroit Clin. Lab. Mich.

Tibbetts, Mark Hopkins—S. B. Parsons 1912; R. H. O. 1917-18—Asst. Res. Surg.; 1st Lieut. M. C.

Tillett, William Smith — A. B. North Carolina, 1913—Interne, City Hosp. Balt.; 1st Lieut. M. C.

Tischler, Max—Ph. B. Lafayette 1913.—Interne Gen. Hosp. Wilkes-Barre, Pa.; 1st Lieut. M. C.

***Twigg, Nial Franklin**—A. B. St. John's 1913; 1st Lieut. M. C.—**Oct.* 10, 1918.

Tyler, Margaret — A. B. Mt. Holyoke 1913; R. H. O. 1917-18—Asst. Res. New Haven Hosp. Conn.

Van Nostrand, Hobart Sanford — S. B. Colgate 1913—R. H. O.

Wason, Isabel Mary — A. B. Western College for Women 1911—Interne, State Hosp. for X-Ray, Brooklyn, N. Y.

Webb, Robert Alexander, Jr. — A. B. Southwestern Presb. 1910—1st Lieut. M. C.

White, John Bonar — A. B. Davidson 1910—Interne, Soldiers' Home, Washington; 1st Lieut. M. C.

Wilkinson, George Richard—S. B. Davidson 1912—Interne, Hosp. for Women, Balt.; 1st Lieut. M. C.

Worthington, Frank Dallam — A. B. Princeton 1913—1st Lieut. M. C.

Wright, Mary—A. B. Vassar 1911—Interne, Brigham Hosp Boston.

1918

Arnold, Clement Harrisse—A. B. Stanford 1910—Visiting Phys. County and Polyclin. Hosps., San Francisco.

Baylor, John Ward—A. B. Wash. and Lee 1914—R. H. O.

Blair, Harry Edwin—A. B. West. Md. 1914—R. H. O.

Bollinger, Herman John—S. B. Heidelberg (Ohio) 1914—Externe and Asst. Bacteriol.; 1st Lieut. M. C.

Bowden, David Thomas, Jr.—A. B. 1914—1st Lieut. M. C.

Brewster, Albert Howell—A. B. Va. 1914—1st Lieut. M. C.

Cathrall, Friedman Holmes—S. B. Bucknell 1914—R. H. O.

Coblentz, Richard Gilmore—A. B. 1914—1st Lieut. M. C.

Conroy, Frank Davies—A. B. Univ. of N. C. 1914—1st Lieut. M. C.

Craddock, Alva Brown—S. B. Howard Coll. 1908—Asst. Phys. Sanatorium, Mt. McGregor, N. Y.

Day, Edgar Mortimer—A. B. Princeton 1914—1st Lieut. M. C.

Dorsey, John Lanahan—A. B. 1914—1st Lieut. M. C.

Douglas, Beverly—Litt. B. Princeton 1914—R. H. O.

Dunham, Ethel Collins—A. B. Bryn Mawr 1914—R. H. O.

Eliot, Martha May—A. B. Radcliffe 1913—Interne, Brigham Hosp. Boston.

Elmendorf, John E.—A. B. Rutgers 1914—R. H. O.

Foley, Frederic Eugene Basil—Ph. B. Yale 1913—Externe and Asst. Pathol.

Fuller, Lawrence Stokes, Jr.—S. B. Univ. of S. C. 1914—1st Lieut. M. C.

Gager, Leslie Tracy—A. B. Yale 1914—1st Lieut. M. C.

Germann, Hildegarde Catharine—A. B. Vassar 1913—R. H. O.

Getz, Lawrence—A. B. 1914—1st Lieut. M. C.

Ghormley, Ralph Kalb—S. B. Whitworth 1914—1st Lieut. M. C.

Goldsberry, Blaine Randolph—S. B. Ohio Univ. 1914—Asst. Surg. U. S. N.

Green, John Summerfield, Jr.—S. B. Lafayette 1914—Asst. Surg. U. S. N.

Griffith, Harry LaVerne—A. B. Ohio State 1914—R. H. O.

Harwood, Garland Melvin—A. B. Richmond 1914—1st Lieut. M. C.

Herman, Nathan Bernard—A. B. 1914—R. H. O.

Hillman, Rolfe Louis—A. B. Emory and Henry 1914—R. H. O.

Holman, Emile Frederic—A. B. Stanford 1911, and Oxford 1916—Asst. Surgery.

Houseal, Robert Wright—A. B. Newberry 1911; A. M. Va. 1913—R. H. O.

Huck, John Gardiner—A. B. 1913—1st Lieut. M. C.

Hughson, Walter—S. B. Princeton 1914—Acting Res. Union Prot. Infirm., Balt.

Huiskamp, John Edabduel—A. B. Harvard 1898—1st Lieut. M. C.

Johnson, S. Lloyd—A. B. Goshen Coll. 1914—Asst. Surg. U. S. N., Washington.

Jordan, Carl Fred—A. B. Iowa Univ. 1914—R. H. O.

Key, John Albert—S. B. Ala. Polytech. 1913—1st Lieut. M. C.

Keyser, Linwood Dickens—A. B. Va. 1914—R. H. O.

Kite, Joseph Hiram—A. B. Rand.-Macon 1914—R. H. O.

Klecan, Janina Constance — Lemberg (Austria) Gym. 1903—Interne, City Hosp. Balt.

Koontz, Amos Ralph—A. B. and S. B. William and Mary 1910—Interne, Union Prot. Infirm. Balt.; 1st Lieut. M. C.

Krumrein, Louis Frederick—A. B. George Washington 1914—Interne State Sanatorium, Md.

Lane, Clifford M.—A. B. Wash. and Jeff. 1913—1st Lieut. M. C.

Lentz, Carlisle Sanford—A. B. Creighton 1914—1st Lieut. M. C.

Levy, Charles Sumner—A. B. 1914—R. H. O.

Lincoln, Jennings Sipe—A. B. Elon Coll. 1911—1st Lieut. M. C.

***Linton, Edwin Scott**—A. B. Wash. and Jeff. 1913. **In France, Nov.* 14, 1917.

McCown, Albert Smith—A. B. Wash. and Lee 1910—1st Lieut. M. C.

McFee, William Frank—A. B. Tenn. 1914—1st Lieut. M. C.

Martindale, Joseph Watson, Jr.—Ph. B. Yale 1913—1st Lieut. M. C.

Mateer, John Gaston—A. B. Wooster 1911—R. H. O.

Mayer, William Frederick—A. B. Princeton 1914—1st Lieut. M. C.

Meekins, Gilbert Edison—A. B. Wash. Coll. 1913—1st Lieut. M. C.

Menagh, Frank Robert—A. B. Iowa Univ. 1914—Interne Ford Hosp. Detroit; 1st Lieut. M. C.

Michael, Edith S.—A. B. Lyceum Fliegelmann, Vienna, 1911—R. H. O.

Montgomery, John Chalmers—A. B. Mich. 1914—R. H. O.

Morgan, Hugh Jackson—S. B. Vanderbilt 1915—1st Lieut. M. C.

Nachlas, Israel William—A. B. 1914—R. H. O.

Noble, William Dove—A. B. St. John's 1914—1st Lieut. M. C.

Oppenheimer, Ella—A. B. Bryn Mawr 1914—Interne Brigham Hosp. Boston.

Pardee, Katherine—A. B. Wellesley 1912—R. H. O.

Penfield, Wilder Graves—Litt. B. Princeton 1913—Interne Brigham Hosp. Boston.

Phythyon, Daniel—S. B. Westminster (Pa.) 1914—R. H. O.

Porter, Clarence Chipley—A. B. 1914—1st Lieut. M. C.

Rankin, John Paul—A. B. Ohio Wesleyan 1914—1st Lieut. M. C.

Ransom, Clarence Albert—S. B. Fargo 1914—R. H. O.

***Rich, Lyle Barnes**—A. B. North Dakota 1914. **In France, Dec. 8, 1917.*

Richter, Ina May—A. B. Bryn Mawr 1908—R. H. O.

Rosen, Robert—S. B. Mich. Agric. 1913—R. H. O.

Rushing, Emmet Orren—A. B. Texas 1913—Interne, Babies' Hosp. N. Y. 1918-19.

Sachs, Louis—A. B. 1914—R. H. O.

Scott, William Justus Merle—A. B. Oberlin 1914—Interne, Ford Hosp. Detroit; 1st Lieut. M. C.

Shirley, Harold Clinkscales—S. B. S. C. Mil. 1913; A. M. S. C. Univ. 1914—R. H. O.

Smith, Woodruff—A. B. Williams 1914—1st Lieut. M. C.

Southworth, John Deane—A. B. Kenyon 1914—1st Lieut. M. C.

Spalding, Edward D.—S. B. Princeton 1914—1st Lieut. M. C.

Stewart, Horace Gentry—S. B. Mass. Inst. Tech. 1914—R. H. O.

Stone, Phebe—A. B. Goucher 1914—Interne, Memorial Hosp., Worcester, Mass.

Swartz, Ralph Easterday—A. B. Kansas 1914—1st Lieut. M. C.

Tannenbaum, Karl Hart—A. B. Wabash 1914—Acting Asst. Res. Union Prot Infirm. Balt.

Verplanck, Van Noyes—A. B. Yale 1914—1st Lieut. M. C.

Wadsworth, Harvey Bryan—A. B. N. C. Univ. 1909—R. H. O.

Wagner, Charles Edward—Ph. B. Dickinson 1914—1st Lieut. M. C.

Ward, James Alto—A. B. Howard Coll. 1914—R. H. O.

Wilkins, Lawson—A. B. 1914—1st Lieut. M. C.

Witzeman, Louis Alexander—A. B. Harvard 1913—Res. Phys. St. Agnes Hosp. Balt.

Woolley, LeGrand—A. B. Utah 1911—R. H. O.

Yager, Rodes Estill—S. B. Georgetown (Ky) 1913—Interne, Soldiers' Home, Washington.

Hobbs, Royal Lee—A. B. St. John's 1914—Interne, Church Home and Infirmary, Balt.—[*Degree conferred Oct. 1, 1918.*]

Stump, Elmer Raymond—A. B. Georgia 1912—Interne, Brady Clinic—[*Degree conferred Oct. 1, 1918.*]

(89)

Master of Arts

1914

Barroll, Lewin Wethered—A. B. Washington Coll. 1908 and Yale 1910; LL. B. Univ. of Md. 1912—Atty-at-Law, Balt.; Capt. Coast Artillery, U. S. R.—(*Political Science*)

Branham, Lucy Gwyn—A. B. Washington Coll. 1911; Instr. Hist. Southland Sem. Fla., 1914-15—Balt. (1014 Cathedral St.)—(*History*)

Buckler, Leslie Hepburn—A. B. 1912—Atty-at-Law, Balt. (3507 N. Charles St.); Aviation Sec. U. S. R.—(*Political Science*)

Caldwell, Clinton Coppage—A. B. Roanoke 1905—Student, Univ. of Wisconsin, Madison—(*Political Economy*)

Dunn, Grace Adelaide—Ph. B. Hamline 1909; Ph. D. 1915—Prof. Botany, Lake Erie Coll. Painesville, O.—(*Botany*)

Fox, Early Lee—A. B. Rand.-Macon 1909; Ph. D. 1917—Prof. Hist. W. Va. Wesleyan Coll. Buckhannon—(*History*)

Gorton, Arthur Feddeman (F)—A. B. 1912, Ph. D. 1915, Instr. 1916-17; Instr. Univ. of Minn. 1915-16—Toledo, O.—(*Physics*)

Koontz, Louis Knott—A. B. Washington and Lee 1908; Dean and Prof. Hist. and Pol. Sci. Davis and Elkins Coll. 1914-17—2d Lt. U. S. R., War Coll. Washington—(*History*)

Lilly, Marie Loretto (F)—A. B. Notre Dame (Md.) 1900; Ph. D. 1916; Instr. Mt. St. Agnes Coll. 1916-17—Instr. English, Dominican Coll. San Rafael, Cal.—(*English*)

Martin, Edward Duffield—A. B. 1911; LL. B. Univ. of Md. 1913—Atty-at-Law, Balt. (1013 Md. Trust Bldg.); Naval Reserves—(*Political Science*)

Mirza, Youel Benjamin—Naval Intell. Bureau, Washington—(*Political Science*)

Ranft, Charles Frederick—A. B. 1902—Instr. Hist. Balt. Polytech. Inst.—(*History*)

Sturdy, Henry Francis—A. B. St. John's 1906—Prof. Hist. St. John's, Annapolis—(*History*) (13)

1915

Clarke, Jack Holman—A. B. Presbyterian Coll. (S. C.) 1905; B. D. Union Theol. Sem. (Va.) 1908 — Instr. Tech. High School, Atlanta, Ga.—(*Philosophy*)

Cohen, Teresa (F) — A. B. Goucher 1912; Ph. D. 1918—Alice Freeman Palmer Fellow 1918-19; Univ. of Ill. Urbana—(*Mathematics*)

Dickey, Robert William—Wash. and Lee (S. B. 1910, A B. 1911); Ph. D. 1916—Assoc. Prof. Physics, Wash. and Lee, Lexington, Va.—(*Physics*)

Galloway, James Neville—A. B. Rand.-Macon 1908—Instr. Balt. Polytech. Inst.—(*Mathematics*)

Gressitt, James Fullerton—A. B. 1906—Princ. Duncan Acad. Tokyo, Japan—(*Education*)

Hughes, William Brant — A. B. Ohio Northern 1909 — Prof. Physics, Asbury Coll. Wilmore, Ky.; Instr. Physics 1918-19—(*Physics*)

Johnson, Buford Jennette—A. B. La Grange Coll. (Ga.) 1905; Ph. D. 1916—Bureau of Educ. Exper. N. Y. (16 W. 8th St.)—(*Education*)

Murphy, Herbert Hayes—A. B. West. Md. 1897; Prof. Md. State Normal School 1914-17—Supt. of Schools, Hastings-on-Hudson, N. Y.—(*Education*)

Rather, James Burness—S. B. Texas A. and M. Coll. 1907—Prof. Agric. Chem. Univ. of Ark. Fayetteville—(*Chemistry*)

Roberts, Joe Kent—Emory and Henry Coll. (A. B. 1910, Prof. Geol.), Emory, Va.—(*Geology*)

Spielman, William Carl—A.B. Cincinnati 1905—Assoc. Prof. Hist. etc., Carthage Coll. Ill.—(*History*)

Thompson, Edith Viola—A. B. Goucher 1909—Instr Math. Wilkes-Barre Acad. Pa.—(*Mathematics*) (12)

1916

Branham, Grace Bagnall—A. B. Bryn Mawr 1910; Ph. D. 1917—Instr. Rosemary Hall, Greenwich, Conn.—(*English*)

Burka, Samuel Moses—A. B. 1913—Physicist, Bureau of Standards, Washington—(*Physics*)

***Chinda, Masuyo**—A. B. Meija Univ. 1913—(*Political Economy*) — **April* 25, 1916

Crum, Earl Le Verne—A. B. St. John's 1913; Instr. Univ. of Rochester 1916-18—Chaplain, U. S. A.; Athens, Pa.—(*Latin*)

Dotterer, Ray Harbaugh—Ph. B. Franklin and Marshall 1906; Ph. D. 1917—Clergyman, State Coll. Pa.—(*Philosophy*)

Hill, Hinda Teague—A. B. and L. I. Nashville 1903—Prof. French, State Norm. Sch. Greensboro, N. C —(*French*)

Johnson, Elizabeth Frlench (F)—A. B. Goucher 1911; Ph. D. 1917—Instr. German, Sweet Briar Coll., Sweet Briar, Va.—(*German Lit.*)

Mohler, Fred Loomis—A. B. Dickinson 1914; Ph. D. 1917—Physicist, Bureau of Standards, Washington—(*Physics*)

Riley, Cathryn Vedalia—A. B. Wellesley 1912; S. B. Cornell 1916—Medical Student—(*Bacteriology*)

Scharf, Carl (F)—A. B. 1914 — New York (610 Riverside Drive)—*German Lit.*)

Sykes, Philip Louie—A. B. 1908; LL. B. Univ. of Md. 1911—Atty-at-Law, Balt. (322 Law Bldg) — (*Political Science*)

Voss, Vivian — A. B. Transvaal Univ. Coll. 1913; Ph. D., 1917—Royal Flying Corps, British Army—(*Physics*)

Withers, Alfred Miles—A. B. Wash. and Lee 1906: Prof. Millsaps Coll. 1915-16, Davidson Coll. 1916-18—Assoc. French, Southern Methodist Univ. Dallas, Texas—(*French*) (13)

1917

Bayne-Jones, Stanhope — A. B. Yale 1910; M. D. 1914—Assoc. Bacteriol.; Capt. M. C.—(*Pathology*)

Bialock, Hubert Morse—A. B. Univ. of N. Carolina 1916—Corp. Sanitary Corps, A. E. F.; Durham, N. C.—(*Political Science*)

Castleman, Robert Allen, Jr.—A. B. George Washington 1915—Physicist, Bureau of Standards, Washington—(*Physics*)

Dunlap, John Knisely—A. B. Albright 1914—(*History*)

Gover, Mary—A. B. Goucher 1913—Research Zoölogist, Cold Spring Harbor, N. Y.—(*Zoology*)

Greene, Elizabeth—A. B. Smith 1913—Greenfield, Mass. (5 Park St.)—(*Education*)

Guerrant, Sallie Adelaide—A. B. Centenary (Tenn.) 1896—Cambria, Va.—(*History*)

Hull, Joseph Poyer Deyo—Ph. B. Hamilton 1913—Asst. State Geologist, Atlanta, Ga.—(*Geology*)

Smallwood, Julian Chase—M. E. Columbia 1903—Associate—(*Mechanical Engineering*)

Tarr, Frederick Courtney—A. B. 1915—1st Lieut. Ambulance Service; Balt. (331 E. 22d St.)—(*Spanish*)

Wan, George—A. B. Government Univ. of Peking 1912—Student, Harvard—(*Political Science*)

Welsh, Helen Dorothy—A. B. Goucher 1915—Milton, W. Va.—(*History*)

Wilcox, Jean Curley—A. B. Goucher 1915—Asst. Goucher Coll., Balt.—(*French*) (13)

1918

Cloud, John H.—A. B. Valparaiso 1896—Prof. Physics, Valparaiso Univ. Ind.—(*Physics*)

Coffin, Harrison Cadwallader—A. B. 1916—Chem. Warfare Service, U. S. A.; Rogers Fellow (*elect*)—(*Latin*)

Dallam, Mary Theresa—B. S. 1916—Instr. Western High School, Balt.—(*English*)

Diggs, Eleanor—A. B. Goucher 1915—Roland Park, Balt.—(*History*)

Dryden, Hugh Latimer—A. B. 1916—Bureau of Standards, Washington, D. C.—(*Physics*)

Dulac, Victor—A. B. George Washington 1915—Balt. (University Apts.) (*French*)

Hartman, Anabel Eugenia—A. B. Goucher 1908—Instr. Eastern High School, Balt.—(*English*)

Owens, James Herbert—A. B. Rand.-Macon 1904—Princ. High School, Havre de Grace, Md.—(*Education*)

Pelton, Nellie Frances—A. B. Oberlin 1912—Instr. Lakewood Hall School, Lakewood, N. J.—(*English*)

Richardson, Dorsey—A. B. 1915—1st Lieut. 17th Artill. France—(*Political Science*)—[*Degree conferred Feb.* 22, 1918.]

Smead, Jane Van Ness—A. B. Univ. of Paris, 1916—Carlisle, Pa.—(*French*)

Smith, Lucile Douglas—A. B. Transylvania Univ. 1904—Instr. Ward-Belmont Sch. Nashville, Tenn.—(*English*)

White, William Harry Hazard—A. B. Harvard 1905—Balt. (2636 Maryland Av.)—(*Education*) (13)

Bachelor of Arts

1914

Barton, Alexander Kirkland—1st Lieut. Field Artillery; Pikesville, Md.

Bowden, David Thomas, Jr.—M. D. 1918—1st Lieut. M. C.

Bridgman, Victor Horace, Jr—Capt. Field Artillery.

Catlin, Herbert Edgar—Instr. Kent Sch. Kent, Conn.

Chenoweth, Laurence Benjamin — Med. Student.

Coblentz, Richard Gilmore — M. D. 1918—1st Lieut. M. C.

Corner, Henry Evans — Balt. (212 Ridgewood Rd.)

Davis, Francis Asbury — Balt. (1701 Park Av.)

Donoho, Edmond Shepard—Lieut. U. S. R.

Dorsey, George Edwin (F) — Ph. D. 1918—Geologist, Tulsa, Okla. (905 N. Main St.)

Dorsey, John Lanahan—M. D. 1918—1st Lieut. B. E. F.

Everton, Wallace Roylance—Gen. Theol. Sem. (N. Y.) 1917 — Clergyman, Phila. (2018 Appletree St.)

Geissel, Walter Frederick—Balt. (2725 N. Charles St.)

Getz, Lawrence—M. D. 1918—1st Lieut. M. C.

Gminder, Albert Roland—San. Corps, A. E. F.

Hahn, Frederick Adam—Teacher, Balt. (112 Augusta Av.)

Hammond, Albert Lanphier (F)—Asst. English.

Herman, Nathan Bernard—M. D. 1918—House Officer.

Hollyday, Guy Tilghman Orme—Lieut. Cavalry, U. S. R.

Howell, Roger (F)—Ph. D. 1917—1st Lieut. Infantry; Atty. at Law, New York (34 W. 44th St.)

Keiser, Samuel Jacob—Balt. (2008 Linden Ave.)

Lauchheimer, Malcolm Horace—Ph. D. 1917—Lieut. U. S. R.; Balt. (2122 Bolton St.)

Leibensperger, Raymond — Geologist, Ponca City, Okla.

***Leland, Frank Kimball**—*February* 26, 1918.

Levy, Charles Sumner—M. D. 1918—House Officer.

***Lynch, Vernon**—Ph. D. 1918; Asst. Phygiol. 1916-18—**July* 25, 1918.

Nachlas, Israel William—M. D. 1918—House Officer.

Penniman, John Alexander Dushane—Lieut. U. S. R.

Porter, Clarence Chipley—M. D. 1918—1st Lieut. M. C.

Powers, Donald Wayles—Rochester, N. Y. (2116 Rosedale St.)

Randall, Blanchard, Jr. — Capt. Field Artillery.

Rice, John Hubner—Lieut. U. S. R.

Richmond, Harry Walker — Princeton Theol. Semfl 1917—Chaplain, U. S. A.; Balt. (3 Erdman Av.)

Sachs, Louis—M. D. 1918—House Officer.

Schaffer, Aaron (F)—Ph. D. 1917—Asst. English and French.

Scharf, Carl (F)—A. M. 1916—New York.

Schoenewolf, Arthur Martin—Balt. (818 N. Carrollton Av.)

Simpson, Kemper — Ph. D. 1917—Expert, Federal Trade Board, Washington.

Sinclair, Joseph Clement — Clergyman, Balt. (311 N. Payson St.)

Snyder, Charles Irvin—Balt. (711 Reservoir St.)

Steinmuller, Karl Josef—Balt. (327 N Carrollton Av.)

Stiebel, Harold Leo—Lieut. U. S. R.

Supplee, Cochran—U. S. A.

Sutton, Walter Degges—Army Welfare Work. Balt. (1735 Bolton St.)

del Valle, Carlos M.—

Weber, Carl Jefferson—Oxford (Rhodes Scholar 1914-17, A. B. 1917)—Lieut Field Artillery.

***Wells, Clifford Almon**—Canadian Army 1914-17—**In action in France,* 1917.

White, Steuart D'Ohl—Garrett Bibl. Inst. 1917—Nat. Field Sec. Epworth League, Chicago (740 Rush St.)

Whitehill, Milford Henry—Balt. (2036 Eutaw Pl.)

Wilkins, Lawson — M. D. 1918 — 1st Lieut. M. C.

Yost, John Stevenson Long—Washington (1755 Church St.)

Treide, Henry Ernest—Balt. (21 Hopkins Pl.) (Class of 1904)—[*Degree conferred October* 14, 1914.]

(52)

1915

Baker, William Addison, Jr.—Mt. Washington, Md.

Baroway, Moses — Sec. Amer. Zionist Med. Unit, Jerusalem.

Bartlett, Joseph Thomas, Jr.—U. S. R.

Biser, Daniel Benton—

Brinton, Wilmer, Jr.—U. S. R. [*Degree conferred Oct.* 15, 1915.]

Brooks, Arthur Edward—Instr. McKendree Coll. 1915-17—Lieut. U. S. R.

Cohn, Leopold Clarence—Med. Student.

Cole, Raymond Kenmore—Teacher, Balt. (1641 Thomas Av.)

Deems, Charles Everard—Rochester Theol. Sem. 1918; Clergyman, Orange, N. J. 1918-19—Asst. Registrar.

De Witt, John — Ambulance Service; Roland Park, Balt.

Ebaugh, Franklin Gessford—Med. Student.

Eiseman, Millard—Lieut. U. S. R.

Ford, Frank Rodolph—Med. Student.

Hall, George Martin—Signal Corps, U. S. R.; Balt. (511 E. 38th St.)

Hilgartner, Andrew Henry—Balt. (Homewood Apts.)

Hutzler, Joel Gutman David—Balt. (210 N. Howard St.)

Levinson, Charles William—Asst. Examiner, Patent Office, Washington

Lindau, Norman C.—(1800 Eutaw Pl.)

Merrick, William Spedden—Balt. (824 Park Av.)

Nicholson, Norman Clive—Balt. (1007 N. Caroline St.)

Niles, Alfred Salem, Jr.—1st Lieut. Engineers, U. S. A.

Perkins, Alvin Thomas — Clergyman, Congress Heights, D. C.

***Prince, Edmund Howard**—Lieut. U. S. A. **In action in France.*

Richardson, Dorsey—A. M. 1918—1st Lieut. 17th Artillery, France. [*Degree conferred Oct.* 15, 1915.]

Sacks, Benjamin—Med. Student.

Short, John Saulsbury—Capt. Field Artillery; Student of Law, Harvard.

Smith, Rush Wiley—Sergt. Field Artillery; Balt. (3600 Reisterstown Rd.)

Spencer, Emmette Rigdon—Clergyman. Westport, Md.

Stewart, Harold J.—Med. Student.

Swartz, Joel Howard—Instr. McKendree Coll. 1915-16—Lieut. Air Service; Balt. (Windsor Park)

Tarr, Frederick Courtney—A. M. 1917—1st Lieut. Ambulance Service; Balt. (331 E. 22d St.)

Thompson, Stephen Ignatius — Balt. (712 N. Calhoun St.)

Troxell, Thomas Franklin—1st Lieut. Infantry; Balt. (3312 W. North Av.)

Uhler, Claud Irving—Med. Student.

Voshell, Allen Fiske—Med. Student.

Warren, Avra Melvin—1st Lieut. U. S. R.; Ellicott City, Md.

Weech, Charles Sewell — Ambulance Service; Balt. (5512 York Rd.)

(37)

1916

Aler, Robert Edward Foster—Student Rochester (N. Y.) Theol. Sem.

Baer, Ridgely Waters—Med. Student.

Bagley, Myron Everhart—Lieut. U. S. R. [*Degree conferred Oct.* 3, 1916.]

Beck, Nathaniel Munroe — Ambulance Service; Balt. (2422 N. Calvert St.)

Bell, Frederick Keller—Grad. Student

Coffin, Harrison Cadwallader — A. M. 1918—Chem. Warfare Service; Rogers Fellow (*elect*).

Cromwell, Guy Nelson—Med. Student

Dryden, Hugh Latimer—A. M. 1918—Bureau of Standards, Washington.

Fader, Ira Brownold—Sergt. Ord. Dept.; Balt. (934 Brooks La.)

Fricke, Robert Elmer—Med. Student.

Friedenwald, Jonas Stein—Med. Student.

Gichner, Manuel Gutman—Med. Student

Hale, Robert William—Grad. Student

Hardy, Arthur Alexander—Lieut. U. S. R.; Evansville, Ind.

Hayes, Edward Pearce—Army Y. M. C. A.

Helfrich, Oregon Benson—Fellow, Chem.

Ludington, George Franklin—Lieut. Infantry; Student of Law, Harvard.

McCormick, Miles Hutchinson — Student, Union Theol. Sem. N. Y.

McDowell, Clarence Whitford—Aviation Service; Balt.

Melamet, Karl — Balt. (3910 Duvall Av.)

Milburn, Page, Jr.—Woodside, Md.

Primrose, Arthur Chipman—Med. Student.

Rosen, Raphael—Grad. Student.

Rosenthal, Emil—Balt. (Linden Av. and Chauncey St.)

Spieker, Edmund Maute—Grad. Student.

Stargardter, Albert Rosenstock—Aviation Service; Balt. (Marlboro Apts.)

Tinges, Charles Howard—Naval Reserves; Balt. (1221 Bolton St.)

Tingley, Thomas Jay — Law Student Columbia Univ. N. Y.

Wade, Ira Owen—Instr. William and Mary Coll. Williamsburg, Va. [*Degree conferred Oct.* 3, 1916.]

(29)

1917

Bagley, Cecil Hopkins—Med. Student.

Baker, Lawrence Henry—Grad. Student.

Brooks, James Vincent, Jr.—Balt. (845 Ducatel St.)

Brower, Albert P.—Balt. (Hamilton).

Chen, Ho-Chin—Student, Teachers Coll. Columbia Univ. N. Y.

Conn, Bernard Herman—

Cushing, Thomas Morris—Asst. English

Davis, Allan Conradt—Naval Reserves; Balt. (1701 Park Av.)

Dawson, Frank William — Ambulance Service.

Doermann, John Emil Andrew—Theol. Student, Capital Univ., Columbus, O.

Durr, William Bantz—Signal Corps (Aviation Sec.); Balt. (508 W. 33d St.)

Edgett, Eugene Albert—2d Lieut Field Artillery; Instr. Balt. City Coll.

Edlavitch, Ernest—Med. Student.

Firor, Warfield Monroe—Med. Student.

France, Robert—Quartermaster's Corps; Balt. (219 W. Lanvale St.)

Frank, Harry Ferdinand William—Lieut. U. S. A.; Balt. (Hamilton)

Gontrum, Thomas McCauley—Psychiatric Dept. U. S. N.; Raspeburg, Md.

Gorman, Howard Jennings—Lieut. Artillery; Balt. (The Guilford)

Hall, Frederick Parrott—Quartermaster's Corps.

Hobelmann, Herman August — Balt. (2119 E. Pratt St.)

Houghton, Ira Luther—Med. Student.

Hurwitz, Chester Ezekiel—Med. Student.

Knipp, John Christian—Radio Service (Naval Aviation); Balt. (Howard Pk.)

League, Walter Cecil—Student, Garrett Bibl. Inst. Evanston, Ill.

McKewen, William Archibald — Lieut. Infantry; Balt. (1508 John St.)

Merrick, Robert Graff—Lieut. U. S. A.; Balt. (824 Park Av.)

Mowbray, John McConkey—Lieut. Field Artillery.

Naylor, Louis Hastings—Instr. St. James School, Md.

Oppenheimer, Reuben—Law Student, Harvard.

Pitt, Charles Gordon—Lieut. Field Artillery; Balt. (200 E. Preston St.)

Roop, John Daniel, Jr.—B. S. in Eng. 1917—Westminster, Md.

Rosenau, William Helman—Med. Student.

Scarborough, Harold Ellicott—Towson, Md.

Shaw, Edwin Orville—2d Lieut. Infantry.

Skinner, William Howser—Lieut. U. S. A.; Balt. (Park Hghts. Av.)

Smith, Edmund Law Rogers—Lieut. Field Artillery; Balt. (709 Park Av.)

Smith, Randolph—Naval Radio Service; Balt. (103 W. Monument St.)

Smith, Wesley Royston—Glenarm, Md.

Steinbach, Alexander Alan—Jewish Sec. Camp Meade.

Sutton, Paul Windom—Med. Student.

Weech, Alexander Ashley—Med. Student.

Wilson, Francis Howard—Lieut. U. S. A.; Wilna, Md. (42)

1918

Breit, Gregory—Bureau of Standards, Washington; Fellow (*elect*) Physics—[*Degree conferred Oct.* 1, 1918.]

Bryan, Cecil Austin—Infantry; Balt. (Homewood Apts.)

Chalmers, Allan Knight—Y. M. C. A. France.

Chu, Jennings Pin-Kwei—Grad. Student.

Cover, Millard James—Denver, Colo. (165 Country Club Pl.)

Eby, James Brian—1st Lieut. U. S. A.; Grad. Student.

Golder, Archibald—Balt. (3508 Fairview Av.)

Hall, Cayton Morris—Ruxton, Md.

Hamburger, Adolf Lawrence — Balt. (2315 Eutaw Pl.)

Hoffman, William Samuel—Grad. Student.

Jarrett, Edwin Bosley—Med. Student.

Knoop, Johann Hinrich—Med. Student.

Kohn, Bernard Louis Benno—Naval Reserves; Mt. Washington, Md.

Lenhard, Raymond Early—Med. Student.

Levy, Isidore Irvin—Med. Student.

Levy, Lester Stern—Balt. (2352 Eutaw Pl.)

Love, William Samuel, Jr.—Med. Student.

McGuigan, Cletus Edmund—Med. Student.

Mechanic, Morris Abel—Grad. Student.

Merryman, Lewis Carl—Towson, Md.

Michelson, Israel David—Med. Student.

Miegel, Charles Hermann — Infantry; Grad. Student.

Miller, Jay Jefferson—Naval Aviation; Balt. (Esplanade Apts.)

Morley, Frank Vigor—2d Lieut. Coast Artillery; Grad. Student.

Neuhausen, Benjamin Simon — Chem. Warfare Service; Grad. Student.

Norris, Grover William—Balt. (1802 N. Fulton Av.)

Rothschild, Morton Kahn—1st Lieut. U. S. A.; Balt. (2124 Brookfield Av.)

Sanner, J. Everett—Med. Student.

Sapp, Charles Daniel—Clergyman, Balt. (1425 Federal St.)

Smith, David Petit, Jr. — Nashville, Tenn. (814 Meridian St.)

Spiers, Tomas Hoskins—1st Lieut. U. S. A.; Grad. Student, Columbia.

Sun, Ko-Chi—Med. Student.

Wasserman, Harry—Med. Student.

Wells, William John Henry Braden—Med. Student.

Woodward, Richard Henley, Jr.—Ensign, U. S. N. R.; Balt. (1307 John St.)

Extra Ordinem

The following enlisted in the military service of the Government after completing three years' work:

Clark, Stanley Irving—Ambulance Service; Balt. (4208 Belview Av.)

Connolly, Lloyd Brooks—110th Field Artillery; Baldwin, Md.

Cort, Hugh—110th Field Artillery; Overlea, Md.

Cromwell, Walter Franklin—2d Lieut. Q. M. C.; Student of Law, Harvard.

Cromwell, Martin John—2d Lieut. U. S. A.; Lake Roland, Md.

Duncan, Robert Reginald—110th Field Artillery; Cockeysville, Md.

Egerton, Stuart Wilson—110th Field Artillery; Med. Student.

Evans, Henry Cotheal—Capt. U. S. A.; Balt. (Calvert Hall Apts.)

Jacobsen Alfred Wilmot—Balt. (Pen Lucy Av.)

Kohn, Martin Benno—110th Field Artillery; Mt. Washington, Md.

Randall, Alexander—Lieut. 110th Field Artillery; Catonsville, Md.

Sutton, Franklin Wilson—U. S. Marine Corps.

Swartz, William Hamilton—1st Lieut. U. S. R.; Balt. (Windsor Park)

Taylor, Walter Lee—Naval Reserves—Catonsville, Md.

(49)

Bachelor of Science in Engineering

1915

Gorsuch, James Stanley—S. B., Md. Agric. 1909—Sergt. Ord. Corps; Engr. State Dept. Health, Hyattsville, Md.—(*Mechanical*)

Lednum, James Maynard—S. B. Md. Agric. 1912—Engr. Davison Chem. Co. Curtis May, Md.—(*Mechanical*)

Wolman, Abel—A. B. 1913—Engr. State Dept. of Health, Balt.—(*Civil*) (3)

1916

Barron, David Howard—2d Lieut. Engineers, U. S. R.—(*Civil*)

Brumbaugh, Isaac Vernon—A. B. West. Md. 1913—Bureau of Standards, Washington—(*Civil*)

Cockey, James Powell—Engineer Corps; Balt. (1512 Madison Av.)

Hutton, Ulric Orlando — Dupont Co. Henry Clay, Del.—(*Electrical*)

Iddings, Frederick T.—Catonsville, Md.—(*Mechanical*)

Johnston, David Humphrey, Jr.—2d Lieut. Engineers—(*Electrical*)

Reier, George Conrad—A. B. Washington (Md.) 1913—Amer. Tel. & Tel Co. New York (195 Broadway)—(*Electrical*)

Tobias, Abraham—Signal Corps, Washington (232 6th St. S.E.)—(*Electrical*)

Webster, James Gwinn—Signal Corps; Balt. (2789½ Alameda Av.)—(*Electrical*)

Willis, Clodius Harris—S. B. Richmond 1914—2d Lieut. Signal Corps—(*Electrical*)

Winslow, George Leiper — A. B. St. John's 1912; S. B. Haverford 1913—2d Lieut. Engineers (1823 Wallace St., Philadelphia)—(*Civil*)

Woodward, Hiram Woods—2d Lieut. Engineers (1307 John St.)—(*Mechanical*) (12)

1917

Baker, Henry Scott—1st Lieut. Field Artillery—(*Electrical*)

***Baxley, William Brown**—2d Lieut. Engineers — (*Mechanical*) — **In France, Aug.* 1, 1918.

Black, Charles Warren—Amer. Internat. Shipbuilding Corp., Hog Island, Pa.—(*Civil*)

Bryan, Guy Lee, Jr.—Instr. Descr. Geom. —(*Civil*)

Cecil, William Downes—Cincinnati (205 Central Union Sta.)—(*Mechanical*)

Chesley, Charles Webster—Lieut. Engineers—(*Mechanical*)

Cohen, Hyman Abraham—Wilmington, Del. (Pa. R. R.)—(*Electrical*)

Crist, Francis Murray—Capt. Field Artillery—(*Civil*)

Darley, J. Wilmerton—Capt. Infantry—(1518 N. Broadway)—(*Mechanical*)

Defandorf, James L.—Milwaukee, Wis. (957 40th St.)—(*Mechanical*)

Evitt, Raymond Wilson—Lieut. Signal Corps; Balt. (Ten Hills)—(*Mechanical*)

Hall, Elbridge Gerry—Lieut. Field Artillery (4207 Potter Av.)—(*Electrical*)

Howard, Stanley Lewis—Draftsman, Baltimore (Woodrow Apts.)—(*Civil*)

Junkins, Albert Benton—Lieut. Signal Corps; Ches. & Potomac Tel. Co.—(*Electrical*)

Levin, Jacob—Amer. Internat. Shipbldg. Corp., Hog Island, Pa.—(*Mechanical*)

Levin, Morris—Balt. (28 Light St.)—(*Mechanical*)

Meyerhoff, Louis—Signal Corps—(101 State St., Perth Amboy, N. J.)—(*Electrical*)

Owings, Noble L.—2d Lieut. Engineers (621 N. Fulton Av.)—(*Civil*)

Perkins, Edward Everett, Jr—Signal Corps; Westinghouse Co., Wilkinsburg, Pa —(*Electrical*)

Reiner, Milton—Signal Corps; Crown Crown Cork & Seal Co.—(*Electrical*)

Roop, John Daniel, Jr.—A. B. 1917—Westminster, Md.—(*Civil*)

Schaeffer, Carl Lawyer—A. B. West. Md. 1914—(*Civil*)

Silberstein, Eli—Draftsman, Balt. (145 Jackson Pl.)—(*Civil*)

Smith, Egbert Leroy—Naval Reserves; Sparrows Point, Md.—(*Civil*)

Straus, Henry Lobe—Naval Aviation—(*Mechanical*)

Strobel, Peyton Brown—Heavy Artillery; Gas & Elec. Co. Balt.—(*Mechanical*)

Stuart, Edward Merceron—Lieut. Engineers—(*Mechanical*)

Thompson, Joseph Trueman—1st Lieut. Engrs.; Towson, Md.—(*Mechanical*)

Twigg, John Milton—(Mechanical)

Upperco, Jesse Myron—(*Mechanical*)

Wacker, Herman, Jr.—Balt. (C. & P. Tel. Co.)—(*Mechanical*)

Watson, John Stuart—Chemist, Martinez, Cal.—(*Mechanical*)

Webb, William David—DuPont Co., Nashville, Tenn.—(*Civil*)

Weeks, Walter Evans—Balt. (108 E. Lexington St.)—(*Mechanical*)

Winchester, Bertram Seager — Signal Corps (2629 St. Paul St.)—(*Electrical*)

Wood, Walter Alexander, Jr—Lieut. Engrs. (609 Falls Rd. Terrace)—(*Civil*)

Young, Louis McComas—Lieut. Aviation Corps (Boonsboro, Md.)—(*Electrical*)

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1918

Bitter, Kenneth Oscar—2d Lieut. Infantry; Towson—(*Mechanical*)

Canton, Eugene Jude—2nd Lieut. Signal Corps; Water Dept., Balt.—(*Mechanical*)

Cullom, Kenneth Stetson—2nd Lieut. Engrs.; Balt. (3618 Springdale Av.)—(*Mechanical*)

Downey, John Jones—Ordnance; Doucette, Texas—(*Civil*)

Ewald, Harry William—2d Lieut. Signal Corps; N. Y. Shipbuilding Co., Philadelphia—(*Electrical*)

Fonaroff, Frank Israel—Naval Reserves; Balt. (1044 W. Franklin St.)—(*Mechanical*)

Harris, George Sylvester—Junior Lieut. U. S. S. Mississippi—(*Electrical*)

Hopkins, Henry Hinkson — Ordnance; Pottstown, Pa. (438 Hight St.)—(*Civil*)

Jammer, Jacob Suter—Western Electric Co., New York (463 West St.)—(*Electrical*)

Kauffman, Erman Reed—Westinghouse Co., Philadelphia (828 S. 48th St.)—(*Mechanical*)

Konze, John Edwin—Naval Aviation; Balt. (3419 Beech Av.)—(*Electrical*)

Lampe, John Harold—Winchester Arms Co., New Haven—(*Electrical*)

O'Neill, George Devine—Ordnance; Balt. (1601 E. Lafayette Av.)—(*Civil*)

Rosenthal, Jacob Stanley—Cumberland, Md. (318 Fayette St.)—(*Civil*)

Weil, Joseph — Westinghouse Co., E. Pittsburgh, Pa. (5409 Corral St.)—(*Electrical*)

Winslow, Oliver Parry—2d Lieut. Signal Corps; Tulane Univ., New Orleans—(*Electrical*)

Wolfe, Alexander McWhorter — Ensign, Naval Aviation; Balt. (1931 St. Paul St.)—(*Civil*)

Zeskind, Louis Morris—Ordnance; Balt. (1627 Orleans St.)—(*Civil*)

Extra Ordinem

*The following enlisted in the military service of the Government after completing three years' work:

Dempster, Ryland Newman — Ensign, Naval Reserves; Balt. (1414 Harlem Av.)

Kauffman, Jacob Franklin — Ridgely, Md.

Martz, Roger Edwin—Aviation; Boonsboro, Md.

McCabe, Arthur Summerfield—2d Lieut. Field Artillery.

Stapleton, Edward Guy—2d Lieut. Infantry; Balt. (801 American Bldg.)

Sullivan, Bernard Aloysius—Ensign, Naval Reserves.

van Hulsteyn, John Max Carey—Ensign, Naval Aviation; Balt. (1304 John St.)

Young, John Walter—Naval Reserves (Boonsboro, Md.) (26)

Bachelor of Science

1916

Dallam, Mary Theresa—A. M. 1918—Instr. Western High Sch. Balt.

Johnson, Mary Stella—Teacher, Thomson, Ga.—[*Degree conferred October 3*]

Seifriz, William Ernest—Bruce Fellow, 1918-19; Univ. Fellow (*elect*).

Stephens, Martha Blades — Teacher Balt. (2223 Callow Av.)

(4)

1917

Buchholz, Agnes Emilie—Teacher, Balt. (734 Reservoir St.)

Eutsler, Keener Wilson—Teacher, Rainelle, W. Va. [*Degree conferred Oct. 2, 1917.*]

Schad, Harry—Instr. Teachers Trg. Sch. Balt. [*Degree conferred Oct. 2, 1917.*]

Wirth, Elsie Louise—Teacher, Balt.

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1918

Brown, Meyer—Teacher, Balt. (138 N. Exeter St.)

Gordon, J. Raymond—Liverpool, W. Va.

Grape, Jacob—Teacher, Balt.; Grad. Student.

Hutton, Philena M.—Teacher, Kingsville, Md.

Krieger, Joseph Louis—Chem. Warfare Service; Grad. Student.

Thomas, Catherine Bowie Clagett — Grad. Student.

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